CHAPTER V.

FOREST ADMINISTRATION.

TOUR OF THE CONSERVATOR.

180. On November 10th, I left head-quarters, and, accompanied by the Divisional Officer, Belgaum, marched through the Gókák-forests to Panchgáon. From Panchgáon I went to Kaládgi, in the Bijápúr District, and thence to Bágalkót and Bijápúr. At Bijápúr, I met the Divisional Officer, and, after a stay of 4 days, proceeded to Nílgund and Bádámi. On December 5, I took train to Dharwar, where I met the Divisional Officer, and, after a stay of 4 days, continued my journey south to the Ranebennur and Kód tálukas of Dharwar. On the 25th December, I left Hírekerúr in Kód, and marched, *viâ* Shirálkóp and Sórab, in Mysore, to Siddápúr and Jóg, in the Southern Division of Kanara, which was reached on January 1. On the 6th, I continued my journey towards Honáwar, where I met the Divisional Officer, Southern Division of Kanara, on the 10th. Thence we went to Chandávar, Katgál, Hireguti, Ankólá, Karwar, Kothebhávi, Sunksál, and, up the Arbail-ghát, to Yellápúr, which was reached on February 18. After a halt of 6 days at Yellápúr, I proceeded to Marchikeri, Kalli, Sóndá, and Sirsi, which was reached on March 22. On the 24th, Camp was moved to Banwási, and thence to Dásankóp, Pálá, Chitgeri, and Bilki, in the Central Division of Kanara, which was reached on April 1. On the 6th, Camp was moved to Yellápúr. From Yellápúr, where I met the Divisional Officer, Central Division of Kanara, I proceeded to Halyál, in the Northern Division of Kanara, which was reached on the 19th April. Thence Camp was moved to Barchi, and afterwards to Nágargáli, Astóli, Anmod, Chándwádi, Jagalbet, and back to Nágargáli, which was reached on May 23rd. On June 13th, I returned to head-quarters for the rains.

ESTABLISHMENT.

181. The *personnel* remained the same as in the previous year, save for the addition of Mr. Copleston, a home-trained officer, who was posted on arrival in India to this Circle, and of 4 students, from the College of Science, appointed probationers.

182. The actual cost on account of the superior and subordinate staffs amounted to Rs. 1,24,916 and Rs. 1,17,977, respectively, against Rs. 1,10,391 and Rs. 1,17,940 of 1893-94.

183. The changes among the officers of the superior staff were :—

184. Mr. Stewart, Divisional Forest-Officer, Kolábá, transferred to the Panch Maháls, handed over charge of his office, on the afternoon of 20th July, 1894, to Mr. W. G. Betham, transferred from the Central, to this, Circle.

185. Mr. H. Mitra, Extra-Assistant-Conservator, Working Plans' Party I, was on privilege-leave from 5th August to 17th September, 1894.

186. Mr. W. G. Betham, Divisional Forest-Officer, Kolábá, was on 2 months' leave on medical certificate, from 15th August to 15th October, 1894, during which time the charge of his office was held by Mr. A. C. Robinson, Extra-Assistant-Conservator and sub-Divisional Officer, Kolábá, in addition to his own, for part of that time (14th to 17th August), and, for the rest of it, by Mr. F. R. Dasai, transferred from the Central, to this, Circle.

187. Mr. Sheshu Manju, Extra-Assistant-Conservator, was on privilege leave from January 21 to April 17th, 1895. Mr. G. J. Rege, Ranger, acted for him.

188. Mr. W. A. Talbot, Divisional Forest Officer, Northern Division of Kanara, proceeded on 3 months' privilege-leave, handing over charge of his office on 1st March, 1895, to Mr. H. Murray, Divisional Officer, Belgaum, who held it, in addition to his own, until relieved on the 30th May, 1895, by Mr. E. G. Oliver, Divisional Officer, Working Plans' Party I.

189. Mr. H. Mainwaring, Divisional Officer, Bijápúr, was on privilege leave from 12th March to 11th May, 1895, during which time the charge of the division was partly held by Mr. T. B. Fry, in addition to his own (Dharwar-Division), (12th to 31st March), and for the rest of it, by Mr. G. K. Betham.

190. Mr. G. K. Betham, on transfer to the Dharwar-Division, handed over charge of the Southern Division of Kanara on the 27th March, 1895, to Mr. D. M. Bijoor, Extra-Assistant-Conservator, who held it until relieved by Mr. E. G. Oliver on the 20th May, 1895, from whom it was taken charge of by Mr. W. A. Talbot on return from leave on the 28th idem.

191. Mr. T. B. Fry proceeded on 14 months' furlough, giving over charge of the Dharwar and Bijápúr Divisions to Mr. G. K. Betham on the 1st April, 1895, who relinquished that of the latter to Mr. Mainwaring on the 12th May, 1895.

192. Mr. E. G. Oliver, Divisional Forest-Officer, Working Plans' Party I, was on 1 month's privilege-leave from 28th January, 1895, and Mr. H. Mitra, Extra-Assistant-Conservator, acted for him.

193. Mr. N. D. Satáráwála, Extra-Assistant-Conservator, Working Plans' Party II, was on 2 months' privilege-leave from April 2, 1895.

GENERAL REMARKS.

194. *Kumri Cultivation in Kánara.*—In the month of May, there was a serious, and apparently preconcerted, outbreak of *kumri* on the Súpá-ghâts in the Northern Division of Kanara. Some inhabitants of Anmód, in the extreme north of the Máhál, began it by burning 20 acres of forest. The adjoining hamlets quickly followed suit, and in a very few days the evil became epidemic all along the ghâts as far south as Anshi, a distance of about 50 miles from Anmód as the crow flies. The efforts of the guards to prevent this illegal cultivation were vain in face of resistance and the odds opposed to them, and all they could do was to report each occurrence, as soon as discovered, to their superiors. On becoming aware of the seriousness of the outbreak, I dispatched as many guards and foresters as could be obtained from Belgaum, and elsewhere, to the assistance of the local officers, and proceeded to the more northern part of the affected area. There I took down the depositions of forty groups of offenders, and Mr. Murray, the Divisional Officer then in charge, did the same for the southern portion. All concerned admitted the offence, and declared that they had committed it because, *kumri* having been closed to them in Goa, they no longer have any means of subsistence. At the same time, they declared their unwillingness to cultivate, on any terms whatsoever, the numerous fallow rice-lands existing in their village areas. In the end, this being the first offence of the kind, the offenders were leniently treated, and let off with small fines, the crops, if any, resulting from the cultivation, being ordered to be destroyed. The total area burnt is estimated to be 385 acres. The work was carried out so hurriedly that only small timber could be burnt, but most of the larger trees were cut down. The pecuniary loss to Government is, however, slight, no very valuable species having been destroyed.

195. *Causes of delay in the submission of the Annual Reports.*—The date prescribed by Government for the submission of the Conservators' reports is October 31st (Government Resolution, Revenue Department, No. 8102, dated 15th November, 1890.) This date was fixed when the forest-year ended on March 31. Now, however, the forest-year has been extended to June 30th, and Divisional Officers' reports are not received by me much before September (this year the first was received on August 14th; the last report was received on September 4). References regarding statements or omissions, have to be made to Divisional Officers, which cause considerable delay in the preparation of my summary.

196. *Approaching retirement of Mr. Davidson.*—Before this report is published, Mr Davidson, now Collector of Kanara, will have retired from the service to the great regret of all forest-officers serving in that district. His intimate acquaintance with the forest-affairs of his district in their relation to public needs, co-operation, and non-interference with purely departmental matters, are qualities which ensure the maintenance of the very cordial relations that have always existed between the Revenue-and Forest-Departments in this, the most important, forest-district of the Presidency.

197. *Services of Officers.*—I have much pleasure in acknowledging the good work done by Divisional Officers and officers of the lower controlling and executive staff, and clerical branch.

198. The executive establishment has a specially hard task to perform, as it is greatly undermanned and due allowance must, therefore, be made for this fact in forming an opinion of the work done by it.

199. The following officers have been specially commended by Divisional Officers for the good work they have done:—

Mr. Mitra, Extra Assistant-Conservator.
Mr. Robinson, do.
Mr. Rege, Ranger.
Mr. Máne, do.
Mr. Nádkarni, Surveyor, Working Plans.

200. The office establishment has also worked satisfactorily.

201. *Health of Establishment.*—I regret to have to report the death of Mr. J. M. Fernandez, Extra-Assistant-Conservator, as well as that of Mr. Ghosekhán, late Ranger in charge of the Halyál-Range. Mr. Fernandez was Divisional Officer, Ratnágiri, at the time of his death, and had served meritoriously for 32 years. Mr. Ghosekhán was also a deserving officer of long standing in the department. The deaths are also reported of 1 forester and 14 guards.

202. The conduct of the subordinate establishment was not altogether satisfactory. Twenty-two guards were dismissed, and 1 forester and 5 guards reduced.

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

Conservator's Office, Southern Circle,
Belgaum, 1st November 1895.

LIST OF STATEMENTS, ACCOMPANYING THE FOREST ADMINISTRATION REPORT OF THE CONSERVATOR OF FORESTS, SOUTHERN CIRCLE, FOR 1894-95.

Form No. 46 ...	Area of Reserved Forests, 1894-95.
,, ,, 46A ...	Area of Protected Forests, 1894-95.
,, ,, 47 ...	Progress made in, and Expenditure incurred on, Forest Settlements.
,, ,, 48 ...	Demarcation and maintenance of Boundaries.
,, ,, 49 ...	Forest area surveyed and under survey.
,, ,, 50 ...	Progress made in Working-Plans.
,, ,, 51 ...	Communications and Buildings.
,, ,, 52 ...	Prosecutions for breaches of Forest Rules, during 1894-95.
,, ,, 52A ...	Statement showing the number of cases of misappropriation of minor produce of the several Divisions of the Southern Circle for the year 1894-95.
,, ,, 52B ...	Statement showing the number of cases dealt with under Section 67 of the Indian Forest Act.
,, ,, 52C ...	Statement showing the number of cases in which fines amounting to one Rupee, two Rupees and so on, up to the maximum, were inflicted during 1894-95.
,, ,, 53 ...	Area of Forest-tracts protected from fire during 1894-95.
,, ,, 54 ...	Area open and closed to grazing during 1894-95.
,, ,, 55 ...	Return of grazing in the State Forests during 1894-95.
,, ,, 56 ...	Area of Plantations, 1894-95.
,, ,, 57 ...	Outturn of Timber and Fuel, 1894-95.
,, ,, 58 ...	Outturn of minor Forest Produce, 1894-95.
,, ,, 59 ...	Account of Timber and other Produce cut or collected by Government agency and brought to Sale-Depôts or sold locally during the year 1894-95.
,, ,, 60 ...	Abstract showing the value of Timber and other Produce at Sale-Depôts for the year 1894-95.
,, ,, 60A ...	Abstract showing the value of Live and Dead Stock for the year 1894-95.
,, ,, 61 ...	Summary of Revenue and Expenditure of the different Divisions during the year 1894-95.
,, ,, 62 ...	Account Current for the year 1894-95.
,, ,, 63 ...	Revenue received and Outstandings on account of Revenue during 1894-95.
,, ,, 64 ...	Outstandings and Liabilities on account of Contractors and Disbursers for 1894-95.
,, ,, 65 ...	Financial results for the year 1894-95.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

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FORM No. 46.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Area of Reserved Forests, 1894-95.

Division.	Range.	Civil District or Territory.	Name of Forest.	AREA ON 1ST JULY 1894.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1895.		Number and date of Notification of addition or transfer.	REMARKS.
				Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Division of Kanara.	Haliyál and Karwar.	Kanara ...	Haliyal and Karwar ...	298,425	466	...	...	298,425	466	.....	
Central Division of Kanara.	Yellápur, Mundgód and Ankolá.	Do. ...	Yellápur, Mundgód and Ankolá.	379,282	593	...	...	379,282	593	.....	
Southern Division of Kanara.	Sirsi, Honáwar and Kumta.	Do. ...	Sirsi, Honawar and Kumta.	78,750	123	968	...	79,718	125	3360 of 4th May 1895.	
Belgaum Division.	Khánapur, Gókak, Belgaum, Sampgáon, Chikódi and Athni.	Belgaum ...	Khánápur, Gókák, Belgaum, Sampgaon, Chikódi and Athni.	340,351	532	*84,991	†60	425,282	664	* 5618/2-7-94, 6580 B/6-8-94. & 7298B, 7298 C./31-8-94. † 3738/17-5-95 & 4022/29-5-95.	
Dharwar Division.	Dharwar, Kalghatgi, Hángal, Bankápur, Kód, Gadag, Rón, Nargund, Hubli and Ránebennur.	Dharwar ...	Dharwar, Kalghatgi, Hángal, Bankápur, Kód, Gadag, Rón, Nargund, Hubli and Ránebennur.	109,355	171	‡121,265	§847	229,773	359	‡ 6301C/26-7-94, 7195A/28-8-94, 8637A/22-10-94, 358B/16-1-95, 4340A/10-6-95 and 4533 B, 4542 A, 4547A./17-6-95. § 8381/13-10-94 & 1186/12-2-95.	
Bijápur Division.	Badámi and Bágalkót.	Bijápur ...	Badámi, Hungund, Bijápur, Bágevádi, Muddebihál and Indi.	99,256	155	...	...	99,256	155	.....	
Kolába Division.	Alibág, Panvel, Pen, Róha, Máhád, Mángáon, Karjat, Khálápur and Nágothná.	Kolábá ...	Alibág, Panvel, Pen, Róha, Máhad, Mángaon, Karjat, Khálápur and Nagothná.	263,078	411	‖16,988	¶45	280,021	438	‖ 5644A/3-7-94 4181A/4-6-95 & 4548A/17-6-95. ¶ 1188/12-2-95.	
Ratnagiri Division.	Dápoli, Khed, Sangameshvár, Devgad and Málvan.	Ratnagiri ...	Dápóli, Khed, Sangameshvar, Rájápur, Chiplun, Ratnagiri, Devgad and Málvan.	12,880	20	...	...	12,880	20		
			Total ...	1,581,377	2,471	224,212	952	1,804,637	2,820		

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 46A.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Area of Protected Forests, 1894-95.

Division.	Range.	Civil District or Territory.	Name of Forest.	AREA ON 1ST JULY 1894.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1895.		Number and date of Notification of addition or transfer.	REMARKS.
				Acres.	Equivalent in Square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Division of Kanara.	Súpa	Kanara ...	Súpá	462,476	723	...	...	462,476	723	.....	
Central Division of Kanara.	Mundgód, Yellápur and Ankolá.	Do. ...	Mundgód, Yellápur and Ankolá.	209,197	327	...	1	209,196	327	9003 of 3rd Nov. 1894.	
Southern Division of Kanara.	Siddápur, Honávar, Sirsi, Bhatkal and Kumta.	Do. ...	Siddápur, Honáwar, Sirsi, Bhatkal and Kumta.	843,203	1,317	...	...	843,203	1,317	.....	
Belgaum Division.	Belgaum, Chikódi, Gókak and Parasgad.	Belgaum ...	Belgaum, Chikódi, Gókak and Parasgad.	95,900	150	...	88,725	7,175	11	6580A and 6580C of 6th August 1894; 7298A, 7298C, 7298D and 7298F of 31st Aug. 1894.	
Dharwar Division.	Dharwar, Kalghatgi, Bankápur, Kód, Hangal, Gadag, Ránebennur, and Karajgi.	Dharwar ...	Dharwar, Kalaghatgi, Bankápur, Kód, Hángal, Gadag, Ránebennur and Karajgi.	166,658	260	...	152,008	14,650	23	6301A and 6301B of 26th July 1894; 8637 and 8637B of 22nd Oct 1894; 358 and 358A of 16th Jan. 1895; 4340 & 4340B of 10th June 1895; 4465 of 14th June 1895; 4533A, 4533C, 4542, 4542B, 4547 and 4547B of 17th June 1895.	
Bijápúr Division.	Bágalkót and Badámi.	Bijápúr ...	Bágalkot, Hungund, Bijápúr, Bágevádi and Indi.	57,369	90	...	...	57,369	90	.....	
Kolábá Division.	Alibág, Panvel, Pen, Róha, Máhád, Mángáon, Karjat, Khálapur and Nágothná.	Kolábá ...	Alibág, Panvel, Pen, Roha, Máhad, Mángáon, Karjat, Khálápur and Nagothná.	21,897	34	...	17,372	4,525	7	5644 of 3rd July 1894; 6579 of 6th Aug. 1894; 4181 of 4th June 1895; 4548 of 17th June 1895.	
			Total ...	1,856,700	2,901	...	258,106	1,598,594	2,498		

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM

FOREST DEPARTMENT,

Statement showing the Progress made in, and the Expen

Name of Forest Division.	Name of Civil District or Territory.	Area already settled at commencement of the year.	Areas finally settled during the year.				
			Number and date of Government order according final sanction to the Settlement.	Name of Forest settled.	Area, in Square miles.	Expenditure incurred during the year on areas finally settled.	
						In Forest Accounts.	In other Accounts.
1	2	3	4	5	6	7	8
		Sq. Ms.				Rs.	Rs.
Reserved.							
Northern Division, Kanara ...	Kanara ...	252	.....	.....	...	...	...
Central Division, Kanara ...	Do. ...	593	.....	.....	...	...	...
Southern Division, Kanara ...	Do. ...	123	.....	.....	...	...	...
Belgaum Division	Belgaum ...	532	No. 5618 of 2nd July and No. 6580 B of 6th and Nos. 7298 B and 7298 E of 31st August 1894.	Belgaum, Khánápur, Chikodi and Parasgad.	133	...	...
Dharwar Division	Dharwar ...	172	No. 6301 C of 26th July, No. 7195 A of 28th August, No. 8637 A of 22nd October 1894, No. 358B of 16th January, No. 4340 A of 10th and Nos. 4533B, 4542 A and 4547 A of 17th June 1895,	Dharwar, Bankápur, Gadag and Karajgi.	189	...	...
Bijápúr Division	Bijápúr ...	...	.....	.....	...	...	...
Kolába Division	Kolába ...	411	No. 5644 A of 3rd July 1894 and No. 4181 A of 4th and 4548 A of 17th June 1895.	Pen, Mángáon and Máhad.	27	...	...
Ratnagiri Division	Ratnagiri ...	20	.....	.....	...	...	...
	Total ...	2,103	.....	.....	349	...	...
Protected.							
Central Division, Kanara ...	Kanara ...	282	.....	.....	...	...	...
Southern Division, Kanara ...	Do. ...	36	.....	.....	...	...	...
Dharwar Division	Dharwar ...	...	.....	.....	...	...	...
Bijápúr Division	Bijápúr ...	...	.....	.....	...	...	...
Kolába Division	Kolába ...	34	.....	.....	...	...	...
	Total ...	352	.....	.....	...	...	...
	Grand Total ...	2,455	.....	.....	349	...	...

Belgaum, 27th September 1895.

No. 47.

BOMBAY, SOUTHERN CIRCLE.

diture incurred on, Forest Settlements during 1894-95.

Entire cost per Square mile of areas finally settled during the year.	Areas undergoing Settlement. At commencement of the year. Name of tract.	Area in Square miles.	Taken in hand during the year. Name of tract.	Area in Square miles.	Expenditure incurred during the year on areas undergoing Settlement. In Forest Accounts.	In other Accounts.	Remarks.
9	10	11	12	13	14	15	16
					Rs.	Rs.	
...	Karwar ... ... Súpá	214 722	.....	...	11,934	...	
...	.....	...	.....	...	...	...	
...	Sirsi	431	.....	...	...	...	
...	.....	...	Belgaum and Parasgad ...	3	1,262	...	
...	.....	...	.....	...	...	...	
...	Badámi, Hungund, Bágalkót, &c., forests.	155	.....	...	...	...	
...	.....	...	Khanḍas and Kotimba ...	2	...	...	
...	.....	...	.....	...	...	...	
...	.....	1,522	.....	5	13,196	...	
...	.....	...	.....	...	...	...	
...	Siddápur ...	86	Siddápur and Honáwar ...	284	3,560	13,601	
...	Dharwar, Gadag, Karajgi, Bankápur, Ránebennur Kód, Hángal, Kalghatgi and Hubli.	525	.....	...	2,062	10,875	
...	.....	90	.....	...	...	...	
...	.....	...	.....	...	...	...	The area entered in the statement for 1893-94 was 64 square miles. The difference is owing to the 'Protected' area having been converted into 'reserved.'
...	.....	701	.....	284	5,622	24,476	
...	.....	2,223	.....	289	18,818	24,476	

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 48.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Record of Demarcation and Maintenance of Boundaries, 1894-95.

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries not demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remraks.
								On new work.	On Repairs.	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
Northern Division, Kanara ...	...	...	...	...	...	...	...	...	...	
Central Divisision, Kanara ...	68	111	45	224	...	...	224	855	1,170	
Southern Division, Kanara ...	30	...	...	30	...	...	30	43	...	
Belgaum Division	...	...	...	...	...	...	...	...	...	
Dharwar do.	...	...	3,385	3,385	...	...	3,385	...	...	
Bijápúr do.	...	...	190	190	...	...	190	...	7	
Kolábá do.	...	...	...	...	...	...	...	...	...	
Ratnagiri do.	...	...	...	...	...	...	...	...	...	
Total ...	98	111	3,620	3,829	...	...	3,829	898	1,177	

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 49.

FOREST SURVEY DEPARTMENT.

Statement of Forest Areas surveyed and under survey during the forest year 1894-95 in the Southern Circle.

Division.	Areas surveyed and under survey during the year.																								Areas remaining to be taken under Survey.	Total Forest area at end of the year, as per Form No. 46.	Cost.			Remarks.
	Special Surveys—Maps on 4" scale or over, by Survey of India Department or Forest Survey Branch.								*Ordinary included in District Surveys.*								*Chain and Compass or other Surveys by local Officers.*													
	WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.			WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.			WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.								
	With details of Growing Stock.		Without details of Growing Stock.		Total cost.	Previous.	Of the year.	Total cost.	With details of Growing Stock.		Without details of Growing Stock.		Total cost.	Previous.	Of the year.	Total cost.	4 Inch or over.		Under 4 Inch.		Total cost.	Previous.	Of the year.	Total cost.			Previous.	Of the year.	Entire cost of all Surveys to end of the year.	
	Previous.	Of the year.	Previous.	Of the year.					Previous.	Of the year.	Previous.	Of the year.					Previous.	Of the year.	Previous.	Of the year.										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Kolábá.				Sq. Ms.	Rs. a. p.																									
Triangulation	...	...	...	150	4,253 0 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Detail Survey 8"... ...	...	...	...	116·69	17,994 5 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total ...	...	...	...	...	22,247 5 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
North Kanara.																														
Triangulation	...	...	...	725	6,221 0 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Traversing...	...	...	...	75	2,177 0 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	78 linear miles.
Total ...	...	...	...	...	8,398 0 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Grand Total ..	...	...	...	...	30,645 5 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

Poona, 8th August 1895.

J. R. HOBDAY, Lieut.-Colonel, S. C.,
Superintendent, Bombay Forest Surveys.

NORM No. 50.

Forest Department, Bombay, Southern Circle.

Progress made in Working-Plans, 1894-95.

Division.	Areas for which Working-Plans have been completed.		Areas for which Working-Plans are being compiled.		Areas for which Working-Plans have still to be taken in hand.	Total Forest area, as in Form No. 46.	Entire cost per square mile of Working-Plans completed.	Remarks.
	At commencement of the year.	During the year.	At commencement of the year.	Taken in hand during the year.				
1	2	3	4	5	6	7	8	9
	Sq. mile.	Sq. mile.	Sq. mile.	Sq. mile.	Sq. mile.	Sq. mile.	Rs.	
Northern Division, Kanara ...	216	.....	54	25	894	1,189	545	
Central Division, Kanara ...	.....	.....	.....	.....	.....	.....	.....	
Southern Division, Kanara ...	.....	.....	.....	.....	.....	.....	.....	
Belgáum Division ...	.....	.....	.....	.....	.....	.....	.....	
Dharwar do. ...	.....	.....	.....	.....	.....	.....	.....	
Bijápúr do. ...	293	.....	.....	140	12	445	33	*i.e.*, 9·8 pies per acre.
Kolábá do. ...	.....	.....	.....	.....	.....	.....	.....	
Ratnagiri do. ...								
Total ...	509	.....	54	165	906	1,634	.....	

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

FORM No. 51.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Communications and Buildings during 1894-95.

Division.	NEW WORK UNDERTAKEN DURING THE YEAR.					REPAIRS EXECUTED DURING THE YEAR.						REMARKS.
	Buildings.		Roads and Paths.		Total Expenditure on new work.	Buildings.		Roads and Paths.			Total Expenditure on Repairs.	
	Description of Building.	Expenditure incurred.	Road or Path, and object of the same.	Length of Road or Path.	Expenditure incurred.	Nature of Repairs.	Expenditure incurred.	Nature of Repairs.	Length repaired.	Expenditure incurred.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Rs.		Miles.	Rs.	Rs.		Rs.		Miles.	Rs.	Rs.	
Northern Division, Kanara.	Watch-house at Kumbárváda.	400	Cart-track in Bamniye Jungles.	1	4		Monsoon repairs to the Haliyál and Supa Range Offices.	48	Repairs to Forest cart-tracks	26	130		
	Do. at Jagalbet...	400	Road from Gopshitta to Pashanmushi	2	300		Do. do. to the Divisional Office Building at Haliyál.	10					
	Do. at Shirvád ...	350					Do. do. to the Kodibág Depôt house and Timber-slide.	22					
	Do. at Gopshitta.	350					Do. do. to the several náka houses, sheds, &c., in the Division.	214					
	Well at Bomanhalli	300											
	Do. at Kulgi	300											
	Temporary well at Mávinkop.	50											
	Total ...	2,150			304	2,454		294			130	424	
Central Division, Kanara.	Additions to the Range Office Building at Mundgod.	200	.....	.....	...		Monsoon repairs to Forest Buildings in the Yellápur Range.	340	Repairs to the Forest-roads in the Yellápur Range.	32	604		
	Temporary náka-house at Honnalli.	10					Do. do. Mundgod Range ...	119	Do. do. in the Mundgod Range.	5	27		
							Do. do. Ankola do. ...	76					
	Total ...	210			...	210		535			631	1,166	
Southern Division, Kanara.	Temporary náka at Manaki.	5	.....	.....	...		Monsoon and petty repairs to the several Forest Buildings in the Division.	477	Repairs to Forest cart-track	9	5		
	Total ...	5			...	5		477			5	482	
Belgaum Division.	Temporary shed at Wagothre.	4	.....	.....	..		Monsoon repairs to the rest-house at Nágargáli.	33	Metalling, ditching and rolling the Halsi-Nágargáli road.	9·5	543		
							Do. do. to several náka-houses in the Division.	84					
							Do. do. to temporary sheds in the Division.	11					
	Total ...	4			...	4		128			543	671	
Dharwar Division.	.....	...	.....	.....	...	...	Monsoon repairs to several Forest Buildings in the Division.	73	Repairs to Forest cart-track	.....	1		
	Total ...	...			...	...		73			1	74	
Bijápur Division.	.....*	...	.....	.....	...	...	.....	...	.....	.....	...	...	No works were carried out in the Division.
Kolába Division.	.....	...	.....	.....	...	...	Thatching the náka-huts in the Alibág, Karjat and Khálápur Ranges.	107	.....	.....	...		
	Total ...	...			...	...		107			...	107	*The expenditure shown in para. 52 of the report, is Rs. 6,599, according to Form No. 61, in which sum is included Rs. 961 expended during 1893-94.
Ratnagiri Division.	.....	...	.....	.....	...	...	Monsoon repairs to Guards' hut in the Camp Plantation.	4	Repairs to the Forest road between Camp Dápoli and Band Reserves.	6	37		
	Total ...	...			...	...		4			37	41	
	Grand Total ...	2,369			304	2,673*		1,618			1,347	2,965*	

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 52.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Prosecutions for breaches of Forest Rules during 1894-95.

Forest Division and Civil District.	Cases pending from 1893-94.	NEW CASES OF THE YEAR.					Total Cases.	DISPOSED OF DURING THE YEAR.						Cases pending at close of year.
		Injury to Forest by Fire.	Unauthorized Felling or appropriation of Wood and minor Forest Produce.	Grazing without Permission or in Tracts in which Grazing is prohibited.	Other Offences.	Total new Cases of the year.		CONVICTIONS.		ACQUITTALS.		TOTAL.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Kanara. Division, A	...	3	46	...	6	55	55	19	60	17	47	36	107	19
Northern Kanara. Division, B	...	...	95	...	3	98	98	98	147	...	...	98	147	...
Northern Kanara. Division, C	...	49	24	...	...	73	73	...	...	...	...	...	...	...
Northern Kanara. Total	...	52	165	...	9	226	226	117	207	17	47	134	254	19
Central Kanara. Division, A	4	1	10	...	1	12	16	10	22	6	17	16	39	...
Central Kanara. Division, B	...	...	13	...	...	13	13	13	13	...	...	13	13	...
Central Kanara. Division, C	...	142	8	...	...	150	150	...	...	...	...	...	...	...
Central Kanara. Total	4	143	31	...	1	175	179	23	35	6	17	29	52	...
Southern Kanara. Division, A	2	...	12	...	...	12	14	8	11	5	5	13	16	1
Southern Kanara. Division, B	...	...	15	...	...	15	15	15	18	...	...	15	18	...
Southern Kanara. Division, C	...	47	11	...	...	58	58	...	...	...	...	...	...	...
Southern Kanara. Total	2	47	38	...	...	85	87	23	29	5	5	28	34	1
Belgaum Division ... A	1	...	27	2	2	31	32	21	32	8	18	29	50	3
Belgaum Division ... B	...	1	96	18	...	115	115	115	115	...	...	115	115	...
Belgaum Division ... C	...	167	47	...	...	214	214	...	...	...	...	...	...	...
Belgaum Division ... Total	1	168	170	20	2	360	361	136	147	8	18	144	165	3

Dhárwár Division ...	A	...	2	...	7	2	5	14	16	8	36	8	30	16	66	...
	B	...	3	...	7	...	1	8	11	11	65	...	...	11	65	...
	C	...	...	63	24	...	...	87	87	...	...	...	...	...	...	...
	Total	..	5	63	38	2	6	109	114	19	101	8	30	27	131	...
Bijápúr Division ...	A	...	...	...	22	...	...	22	22	21	47	1	3	22	50	...
	B	...	...	...	20	2	...	22	22	22	68	...	...	22	68	...
	C	...	...	33	1	...	...	34	34	...	...	...	...	...	...	...
	Total	...	...	33	43	2	...	78	78	43	115	1	3	44	118	...
Kolábá Division ...	A	...	71	3	139	3	62	207	278	238	360	25	146	263	506	15
	B	...	...	4	105	...	13	122	122	122	243	...	...	122	243	...
	C	...	...	135	185	...	...	320	320	...	...	...	...	...	...	...
	Total	...	71	142	429	3	75	649	720	360	603	25	146	385	749	15
Ratnagiri Division...	A	...	2	...	6	1	4	11	13	10	11	2	2	12	13	1
	B	...	10	...	3	...	7	10	20	20	22	...	...	20	22	...
	C	...	...	1	14	...	...	15	15	...	...	...	...	...	...	...
	Total	...	12	1	23	1	11	36	48	30	33	2	2	32	35	1
Grand Total ...	A	...	82	7	269	8	80	364	446	335	579	72	268	407	847	39
	B	...	13	5	354	20	24	403	416	416	691	...	...	416	691	...
	C	...	...	637	314	...	...	951	951	...	...	...	...	...	...	...

A means cases taken into Court. B means cases disposed of under Section 67 of the Indian Forest Act, 1878. C means undetected cases.

Belgaum, 27th September 1895.

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 52 A.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Statement showing the Number of Cases of Misappropriation of Timber and Minor Produce of the several Divisions of the Southern Circle, for the years 1893-94 and 1894-95.

Division.	NUMBER OF CASES OF MISAPPROPRIATION OF																						Total Cases of Misappropriation.		Remarks.
	Timber.		Firewood.		Minor Produce.																				
					Leaves.		Stones, Earth and Minerals.		Cinnamon, Matti, Kaki and Bábul barks.		Tarward bark.		Palm trees.		Harda.		Mangoes.		Hemp.		Thorns.		Total.				
	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	1893-94.	1894-95.	
Northern Division, Kanara	43	42	70	79	3	6	2	5	...	3	...	...	...	...	...	...	...	...	1	...	7	6	13	20	126	141	
Central Division, Kanara...	22	19	...	...	3	4	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	3	4	25	23	
Southern Division, Kanara	22	16	2	5	3	4	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	13	6	37	27	
Belgaum Division	34	58	66	52	.	..	...	6	...	...	...	...	...	...	2	...	1	...	...	...	...	7	3	13	103	123	
Dharwar do.	18	5	22	4	...	...	4	...	...	...	3	...	...	...	...	...	...	...	..	...	1	5	8	5	48	14	
Bijápúr do.	2	1	17	36	...	..	1	5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	3	5	22	42	
Kolába do.	372	150	65	94	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	437	244	
Ratnagiri do.	88	7	6	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	95	9	
Total ...	601	268	248	302	19	14	7	16	1	3	5	...	...	1	2	1	1	...	1	...	8	18	44	53	893	623	

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 52 B.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Statement showing the Number of Cases dealt with under Section 67 of the Indian Forest Act and the amounts paid as compensation in 1894-95 as compared with the preceding year.

Division.	1893-94.						1894-95.					
	Cases compounded.					Amount realized.	Cases compounded.					Amount realized.
	For misappropriation of			For	Total.		For misappropriation of			For	Total.	
	(a) Timber.	(b) Firewood.	(c) Minor Forest Produce.	(d) Other offences.			(a) Timber.	(b) Firewood.	(c) Minor Forest Produce.	(d) Other offences.		
						Rs.						Rs.
Northern Division, Kanara...	21	4	2	6	33	409	30	64	1	3	98	504
Central Division, Kanara ...	5	...	1	...	6	17	10	...	3	...	13	32
Southern Division, Kanara...	1	...	...	...	1	9	9	5	1	...	15	61
Belgaum Division ...	23	58	...	3	84	36	45	38	13	19	115	147
Dharwar do. ...	...	3	1	1	5	1	...	2	5	4	11	12
Bijápúr do. ...	2	9	1	...	12	15	...	20	...	2	22	20
Kolábá do. ...	96	58	6	21	181	618	77	28	...	17	122	788
Ratnagiri do. ...	36	2	1	...	39	71	2	1	...	17	20	7
Total ...	184	134	12	31	361	1,176	173	158	23	62	416	1,571

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 52C.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Statement showing the Number of Cases in which Fines amounting to One Rupee, Two Rupees and so on, up to the maximum, were respectively inflicted during 1894-95.

Division.	NUMBER OF FINES INFLICTED.																							TOTAL.	
	Re. 1 and under.	Rs. 2	,, 3	,, 4	,, 5	,, 6	,, 7	,, 8	,, 9	,, 10	,, 11	,, 12	,, 13	,, 15	,, 16	,, 18	,, 21	,, 23	,, 25	,, 39	,, 44	,, 50	,, 54	,, 60	,, 150	Number.	Amount.
																									Rs.
Northern Division, Kanara	30	14	13	12	7	5	2	1	...	...	...	...	...	...	...	...	...	...	9	...	...	5	...	...	...	98	504
Central Division, Kanara	4	5	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	32
Southern Division, Kanara	4	2	2	...	3	...	...	1	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	15	61
Belgaum Division	82	27	2	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	115	147
Dharwar do.	5	5	1	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	11	12
Bijápúr do.	16	5	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22	20
Kolábá do.	57	19	14	3	2	1	4	...	...	1	2	2	1	2	2	2	2	1	2	1	1	...	1	1	1	122	788
Ratnagiri do.	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20	7
Total ...	218	77	34	17	13	6	7	3	3	1	2	3	1	2	2	2	2	1	11	1	1	6	1	1	1	416	1,571

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 53.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Area of Forest Tracts protected from Fire during 1894-95.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1893-94.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	REMARKS.
1	2	3	4	5	6	7	8	9
			Acres.	Acres.	Acres.	Acres.	Rs.	
Northern Division, Kanara.	Haliyál	1887-88 ...	159,373	190,751	3,103	187,648	6,700	
	Kárwár	,, ...	117,132	120,146	185	119,961	2,649	
	Supa	1888-89 ...	51,966	52,017	60	51,957	2,938	
	Total ...	...	328,471	362,914	3,348	359,566	12,287	
Central Division, Kanara.	Yellapur	1888-89 ...	82,929	84,542	12,598	71,944	2,751	
	Mundgod	,, ...	56,884	58,603	11,303	47,300	1,943	
	Ankola	,, ...	25,910	33,126	288	32,838	1,026	
	Total ...	...	165,723	176,271	24,189	152,082	5,720	
Southern Division, Kanara.	.....	...	.....	...	.....	.....	...	
Belgaum Division.	Chikodi	1883-84 ...	1,919	1,954	304	1,650	54	
	Khánápur	1884-85 ...	91,106	102,016	4,126	97,890	2,453	
	Belgáum	1886-87 ...	58,697	70,933	938	69,995	344	
	Gokák-Sampgáon... ...	1887-88 ...	22,315	22,494	296	22,198	182	
	Total ...	...	174,037	197,397	5,664	191,733	3,033	
Dharwar Division.	Dharwar	1888-89 ...	2,795	5,103	664	4,439	212	
	Kalghatgi	,, ...	5,302	7,921	3,864	4,057	154	
	Bankápur	,, ...	4,401	5,171	475	4,696	102	
	Hángal	,, ...	3,754	3,733	205	3,528	108	
	Kód	,, ...	6,206	7,644	15	7,629	22	
	Gadag	,, ...	5,508	6,410	45	6,365	16	
	Total ..	...	27,966	35,982	5,268	30,714	614	
Bijapur Division.	Badami	1889-90 ...	31,194	23,684	3,044	20,640	204	
	Bagalkot	,, ..	44,158	43,083	340	42,743	255	
	Total ...	...	75,352	66,767	3,384	63,383	459	
Kolába Division...	Khálápur	1887-88 ...	7,018	13,970	444	13,526	93	
	Alibág	1892-93 ...	1,546	5,502	175	5,327	64	
	Nágothná	,, ...	1,628	1,819	75	1,744	92	
	Rohá	,, ...	4,217	1,522	6	1,516	84	
	Mángáon	,, ...	367	5,650	.....	5,650	56	
	Máhád	,, ...	266	687	.....	687	59	
	Panvel	,, ...	1,178	7,998	38	7,960	100	
	Karjat	,, ...	27,854	25,501	121	25,380	78	
	Pen	1894-95 ...	.....	1,718	191	1,527	37	
	Total ...	...	44,074	64,367	1,050	63,317	663	
Ratnagiri Division.	Dápoli	1889-90 ...	2,508	2,516	1	2,515		
	Khed	1892-93 ...	5,190	5,222	2	5,220		
	Chiplún	,, ..	797	799	.....	799		
	Sangameshvar	,, ...	3,108	3,108	.....	3,108		
	Ratnágiri	,, ...	270	270	.....	270	17	
	Rájápur	,, ...	320	320	.....	320		
	Devgad	,, ...	11	11	.....	11		
	Málván	1889-90 ..	625	625	.....	625		
	Vengurla	1892-93 ...	10	10	.....	10		
	Total ...	...	12,839	12,881	3	12,878	17	
	Grand Total ...	...	828,462	916,579	42,906	873,673	22,793	

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 54.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Area closed and open to Grazing during 1894-95.

Division.	AREA IN SQUARE MILES.						REMARKS.
	Closed to all Animals.		Closed to Browsers (Camels, Goats or Sheep).		Open to all Animals.	Total Area.	
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
1	2	3.	4	5	6	7	8
Northern Division, Kanara ...	188	...	3	...	998	1,189	
Central Division, Kanara ...	246	27	...	...	647	920	
Southern Division, Kanara ...	122	...	...	...	1,318	1,440	
Belgaum Division	40	...	642	...	...	682	
Dharwar do.	100	...	...	...	331	431	
Bijápúr do.	45	...	200	...	...	245	
Kolábá do.	94	...	...	...	351	445	
Ratnagiri do.	17	...	...	...	3	20	
Total ...	852	27	845	...	3,648	5,372	

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

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FORM No. 55.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Return of Grazing in the State Forests during 1894-95.

Division.	GRAZING ON PAYMENT—NUMBER OF ANIMALS.													GRAZING FEES—NUMBER OF ANIMALS.												Grand total of value at full rates.
	At full rates.						At privileged rates.							By right under Settlement.						During pleasure of Government, or otherwise than under Settlement.						
	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Value of Fees at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Value of Fees at full rates.	Total value of Fees at full rates.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs.						Rs.	Rs.						Rs.						Rs.	Rs.	Rs.
Northern Division, Kanara ...	215	328	...	...	...	543	12,640	51,633	1,202	...	...	8,110	64,350	...	...	...	...	...	...	...	...	...	...	...	...	...	64,893
Central Division, Kanara ...	150	118	...	...	...	268	13,955	44,216	626	...	...	7,310	58,249	...	...	...	...	...	...	...	...	...	...	...	...	...	58,517
Southern Division, Kanara ...	56	...	...	...	...	56	18,888	75,080	2,512	...	...	11,903	94,282	...	...	...	...	...	...	...	...	...	...	...	...	...	94,338
Belgaum Division	2,918	8,428	49,292	...	196	14,506	8,007	51,002	18,370	...	72	19,007	38,013	...	...	...	...	...	...	17,450	46,959	32	...	...	40,937	40,937	93,456
Dharwar do.	2,853	6,069	26,813	...	50	9,279	11,930	46,667	32,367	...	9	19,970	39,940	...	...	...	...	...	...	2,044	13,637	...	...	...	7,333	7,333	56,552
Bijápúr do.	897	1,782	1,983	...	335	2,206	6,090	23,293	26,106	...	115	10,531	21,062	...	...	...	...	...	...	369	7,647	...	...	...	4,292	4,292	27,560
Kolába do.	198	394	62	...	...	431	1,461	5,225	713	...	...	2,137	4,293	...	...	...	...	...	...	1,309	1,881	...	...	...	2,249	2,249	6,973
Ratnagiri do.	23	...	...	...	...	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
Total ...	7,310	17,119	78,150	...	581	27,312	72,971	297,116	81,896	...	196	78,968	320,189	...	...	...	...	...	...	21,172	70,324	32	...	...	54,811	54,811	402,312

Belgaum, 27th September 1895.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

FORM No. 56.

Forest Department, Bombay, Southern Circle.

Area of Plantations, 1894-95.

Division.	Name of Plantation.	Area in Acres.				Receipts.	Charges.	Remarks.
		On 1st July 1894.	Added during year.	Excluded during the year.	Area on 30th June 1895.	Of the year.		
1	2	3	4	5	6	7	8	9
	Regular Plantations.	Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	
Northern Division, Kanara.	Kadra	357	...	357	...	...	...	
	Mardi	110	...	110	...	...	...	
	Sulgeri	110	...	110	...	...	...	
	Kárwár	123	...	123	...	...	...	
	Bingi	20	...	20	...	...	...	
	Arge	36	...	36	...	...	...	
	Barchi	221	...	221	...	...	...	
	Singatgery	83	...	83	...	..	...	
	Bomanhalli	200	...	200	...	...	...	
Central Division, Kanara.	Devarbail	21	...	...	21	2	125	
	Arbail	5	..	5	...	...	....	
Southern Division, Kanara.	Kasarcode	298	...	...	298	86	...	
Belgaum Division	Kalasgadde	13	...	13	...	...	...	
	Linganmath	16	...	16	...	...	...	
	Deshnur	184	...	...	184	...	49	
Dharwar Division	Kalgeri	21	...	21	...	...	...	
	Kambarganvi	25	...	...	25	...	35	
	Saptapur	...	35	...	35	...	18	
	Devikop	29	...	...	29	...	4	
	Kalkundi	275	...	...	275	...	20	
	Hirur	12	...	...	12	...	...	
Bijápur Division	Mamdápur	174	...	...	174	...	...	
	Anantpur	90	...	...	90	197	...	
	Shivpur	12	...	...	12	...	...	
Kolába Division	Rámdharni	50	...	50	...	...	...	
	Rajwadi	12	...	12	...	...	...	
	Chochi	6	...	6	...	...	...	
	Neral	3	...	3	...	...	...	
	Bhaliwadi	13	...	13	...	...	...	
	Boregaon	6	...	6	...	...	..	
	Kharvandi Kondane	2	...	2	...	...	...	
	Khadve	2	...	2	...	...	...	
	Beed	1	...	1	...	...	...	
	Palaspuri	1	...	1	...	...	...	
	Sugwe	1	...	1	...	...	...	
	Puli	1	...	1	...	...	...	
	Sávali	10	...	10	...	...	...	
	Páturne	1	...	1	...	...	...	
	Ambivli	1	...	1	...	...	...	
	Adosi	97	...	97	...	...	..	
	Lavji	71	...	71	...	...	...	
	Umbarvira	15	...	15	...	...	...	
	Jambrug	63	...	63	...	...	...	
	Sungde	68	...	68	...	...	...	
	Khopoli	45	...	45	...	...	...	
	Bhamaji	86	...	86	...	...	...	
	Nowse	32	...	32	...	...	...	
	Honad	20	...	20	...	...	...	
	Kumboli	46	...	46	...	...	...	
	Kharsundi	38	...	38	...	...	...	
	Vanaosal	2	...	2	...	...	...	
	Bhilaoli	37	...	37	...	...	...	
	Kolothe Mokasi	53	...	53	...	...	...	
	Mandop	41	...	41	...	...	...	
	Vinegaon	3	...	3	...	...	...	
	Kalothe Rayote	7	...	7	...	...	...	
	Nudao	2	...	2	...	...	...	
	Ningdoli	1	...	1	...	...	...	
	Dhámni	2	...	2	..	...	...	
	Vadgaon	38	...	38	...	...	...	
	Kansoli	8	...	8	...	...	...	
	Nodhel	24	...	24	...	...	...	
	Loniwali	1	...	1	...	...	...	
	Vavarle	11	...	11	...	...	...	
	Pali Budruk	9	...	9	...	...	...	
	Vadvihir	6	...	6	...	...	...	
	Manivli Manawli	13	...	13	...	...	...	
	Varse	323	...	323	...	...	...	
	Boregaon Khurd	119	...	119	...	...	...	
	Sudewádi	190	...	190	...	...	...	
	Khaláput	3	...	3	...	...	...	
	Ghodiaoli	7	...	7	...	...	...	
Ratnagiri Division	Dápoli	118	12	...	130	7	60	
	Total, Regular Plantations	4,144	47	*2,906	1,285	292	311	

* Areas of Plantations sufficiently grown up or established have been expunged from the return.

FORM No. 56—*continued.*

Division.	Name of Plantation.	Area in Acres.				Receipts.	Charges.	Remarks.
		On 1st July 1894.	Added during the year.	Excluded during the year.	Area on 30th June 1895.	Of the year.		
1	2	3	4	5	6	7	8	9
	Cultural Operations.	Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	
Central Division, Kanara.	Sahasravali	12	...	12	...	...	...	
	Yellapur	26	...	26	...	...	...	
	Harwada	1	...	1	...	...	...	
	Baleguli	8	...	...	8	...	131	
	Hulihond	10	...	...	10	...	308	
	Sekalben	4	...	...	4	3	108	
	Kirwatti	2	...	...	2	...	30	
	Wantmane	5	...	...	5	...	111	
	Devangudda	39	...	...	39	...	84	
Southern Division, Kanara.	Banwasi	27	...	...	27	...	...	
	Anegundi	7	...	...	7	...	...	
	Kalkatti	2	...	...	2	...	...	
Belgaum Division	Konnur	200	...	...	200	...	...	
	Kanburgi	5	...	5	.....	...	...	
	Maskenhatti	2	...	2	.....	...	...	
	Hemadge	400	...	...	400	...	40	
Dharwar Division	Kambarganvi	375	...	...	375	...	...	
	Hosur	307	...	...	307	...	...	
	Hunshikumri	300	...	...	300	...	...	
	Karkikop	1	...	...	1	...	...	
	Dhundshi	80	...	...	80	...	...	
	Allipur	16	...	...	16	...	...	
	Babapur	127	...	...	127	...	...	
	Channikatti	10	...	...	10	...	...	
	Bassapur	10	...	...	10	...	...	
	Harikatti	2	...	...	2	...	...	
	Banihatti	42	...	...	42	...	...	
	Holtikota	200	...	...	200	...	...	
	Ragikallapur	25	...	...	25	...	...	
	Kalkeri	200	...	...	200	...	...	
	Galginkatti	470	...	...	470	...	...	
	Tersikop	300	...	...	300	...	...	
	Kalkundi	100	...	...	100	...	...	
	Hindasgeri	400	...	...	400	...	...	
	Halekote-Chikeri	706	...	...	706	...	...	
	Dudihalli	51	...	...	51	...	...	
	Nidnigal	44	...	...	44	...	...	
	Balapur	8	...	...	8	...	...	
	Chikbar	46	...	...	46	...	...	
	Medleri	144	...	...	144	...	...	
	Dambal	463	...	...	463	...	...	
	Sankadwadak	268	...	...	268	...	...	
	Nabapur	172	...	...	172	...	...	
Bijápúr Division	Mamdapur	216	...	...	216	...	...	
	Kaladgi	195	...	...	195	...	...	
	Jaknur	9	...	...	9	...	...	
	Hosur	2	...	...	2	...	...	
	Manglur	2	...	...	2	...	...	
Kolábá Division	Sattad	81	...	81	...	...	...	
	Ektad	5	...	5	...	...	...	
	Several places in Karjat	20	...	20	...	...	...	
	Do. in Khálápur	2	...	2	...	...	...	
	Total, Cultural Operations	6,149	...	154	5,995	3	772	
	Grand Total	10,293	47	3,060	7,280	295	1,083	

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

Belaum, 27th September 1895.

FORM No. 57.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Outturn (in Cubic feet, solid) of Timber and Fuel, during the year 1894-95, and Agency of Exploitation.

Division.	Timber in the rough; Logs.					Timber in the rough; Poles.					Sawn or Squared Timber.					Miscellaneous.					Fuel.					Total.
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Northern Kanara Division, ...	58,944	66,783	...	...	125,727	48,358	1,271	...	...	49,629	280,356	7,320	...	...	287,676	3,376 Bamboos No. 263 ..... Bamboos No. 257. Sandalwood, Khandis 25-14-3, Sandalwood, C. ft. 322. ..... Sandalwood, Khandis 41-13-14.	3,465 Bamboos, No. 3,297,976 ..... Bamboos, No. 879,285. ..... Bamboos, No. 156,117.	15,016 Bamboos No. 39,225. ..... Bamboos No. 12,135. ..... Bamboos No. 1,100.	... ...	21,857 Bamboos, No. 3,337,464 ..... Bamboos, No. 891,677; Sandalwood, Khandis 25-14-3; Sandalwood, C. ft. 322. ..... Bamboos, No. 157,217; Sandalwood, Khandis 41-13-14.	1,099,544	1,161,687	1,160	...	2,262,391	2,747,280 Bamboos, No. 3,337,464 482,500 Bamboos, No. 891,677; Sandalwood, Khandis 25-14-3; Sandalwood, C. ft. 322. 727,024 Sandalwood, Khandis 41-13-14; Bamboos, No. 157,217.
Central Kanara Division, ...	6,131	27,620	...	...	33,751	9,285	4,639	1,829	...	15,753	132,850	31,598	15,779	...	180227						19,350	233,419	...	...	252,769	
Southern Kanara Division, ...	6,665	64,873	27,464	...	99,002	456	374	...	...	830	...	...	...	...	...						12,312	614,880	...	...	627,192	
Belgaum Division ...	...	...	40	...	40	49,746	13,735	699	...	64,180	18,772	371	171	...	19,314	10,162	380 Bamboos, No. 441,617; Dry bamboos, cart-loads 604; Sandalwood trees, pieces, stumps, &c., No. 9,775.	..... Bamboos No. 25.	...	10,542 Bamboos, No. 441,642; Dry bamboos, cart-loads 604; Sandalwood trees, pieces, stumps, &c., No. 9,775.	1,903,923	313,663	1,188	...	2,218,774	2,312,850 Bamboos, No. 441,642; Dry bamboos, cart-loads 604; Sandalwood trees, pieces, stumps, &c., No. 9,775.
Dharwar do. ...	...	...	...	...	...	79,037	4,724	328	...	84,089	...	...	...	...	...	..... Sandalwood, Khandis 20-15-29.	..... Bamboos, No. 409,017. Sandalwood trees, roots, branches, &c., No. 10,940.	.....	..	..... Bamboos, No. 409,017; Sandalwood; Khandis 20-15-29; Sandalwood trees, roots, branches, &c., No. 10,940.	229 212	39,687	...	...	268,899	352,988 Bamboos, No. 409,017; Sandalwood, Khandis 20-15-29; Sandalwood roots, trees, branches, &c., No. 10,940.
Bijápúr do. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....	9,071 Bamboos, No. 9,706; Sandalwood trees 756.	.....	...	9,071 Bamboos, No. 9,706; Sandalwood, trees, 756.	...	218,962	...	...	218,962	228,033 Bamboos, No. 9,706; Sandalwood trees, 756.
Kolába do. ...	...	44,910	813	...	45,723	6,058	280,982	3,518	...	290,558	...	1,031	...	...	1,031	249	41,181	44	...	41,474	8,384	1,841,643	...	...	1,850,027	2,228,813
Ratnágiri do. ...	99	...	...	...	99	187	4,720	1,224	...	6,131	...	...	...	...	...	.....	18,816	.....	...	18,816	480	68,613	...	...	69,093	94,139
Total ...	71,839	204,186	28,317	...	304,342	193,127	310,445	7,598	...	511,170	431,978	40,320	15,950	...	488,248	13,787 Bamboos, No. 520; Sandalwood Khandis 88-3-18; Sandalwood, C. ft. 322.	72,913 Bamboos, No. 5,193,718; Dry bamboos cart-loads 604; Sandalwood trees, pieces, roots, &c., No. 21,471.	15,060 Bamboos No. 52,485.	...	101,760 Bamboos, No. 5,246,723; Dry bamboos, cart-loads 604; Sandalwood, Khandis 88-3-18; Sandalwood, C. ft. 322; Sandalwood trees, pieces, roots, &c., No. 21,471.	3,273,205	4,492,554	2,348	...	7,768,107	9,173,627 Bamboos, No. 5,246,723; Dry bamboos, cart-loads 604; Sandalwood, Khandis 88-3-18; Sandalwood, C. ft. 322; Sandalwood trees, pieces, roots, &c., No. 21,471.

The quantities of Timber (both large and small) shown in Chapter III, tally with those shown in column 27 of this form, excepting the fuel in Belgaum and Dhárwár, which is entered in this form according to Solid Measurement.

J. L. L. MACGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

FORM No. 58.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Outturn of Minor Forest Produce for the year 1894-95.

Division.	Description of Produce.	Produce removed or utilized.										Remarks.
		By Government Agency.		By Purchasers.		By Free Grantees.		By Right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value	Quantity.	Value	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
Northern Division of Kanara.	Honey	...	...	...	1,206	...	...	...	...	...	1,206	
	Shigekái	...	...	...	881	...	...	...	...	...	881	
	Nux vomica	...	...	...	111	...	...	...	...	...	111	
	Myrobollams	813	9,440	...	...	...	...	...	...	813	9,440	
	Tapping fees on Baini Trees	...	...	635	40	...	...	...	...	635	40	
	Canes	...	...	56	19	...	...	...	...	56	19	
	Thorns	14	4	...	...	...	...	...	...	14	4	
	Kárvi	...	...	49	1	...	...	...	...	49	1	
	Leaves	18	1	...	...	...	...	...	...	18	1	
	Hemp	1	1	...	...	...	...	...	...	1	1	
	Shindoli leaves	...	...	36	2	...	...	...	...	36	2	
	Do.	...	...	122	60	...	...	...	...	122	60	
	Stones	...	...	4,400	7	...	...	...	...	4,400	7	
	Earth	...	...	500	1	...	...	...	...	500	1	
	Catechu farm	...	...	...	678	...	...	...	...	...	678	
	Grass	...	...	...	146	...	...	...	...	...	146	
	Grazing fees	...	...	...	6,488	...	...	...	...	...	6,488	
	Total	...	9,446	...	9,640	...	...	...	...	...	19,086	
Central Division of Kanara.	Grass	9,030	29	...	7	...	...	...	...	9,030	36	
	Myrobollams	185	4,008	...	...	...	...	...	...	185	4,008	
	Grazing fees	...	...	...	5,684	...	...	...	...	...	5,684	
	Earth	...	...	1,476	5	...	...	...	...	1,476	5	
	Stones	...	...	6,798	28	...	...	...	...	6,798	28	
	Honey and wax	...	...	...	1,919	...	...	...	...	...	1,919	
	Fruit farm	...	...	...	13	...	...	...	...	...	13	
	Tapping fees on Baini trees	...	...	580	36	...	...	...	...	580	36	
	Baini trees	...	...	33	44	...	...	...	...	33	44	
	Shigekái	2	48	...	...	...	...	...	...	2	48	
	Canes	...	...	14	3	...	...	...	...	14	3	
	Shembe bark	...	...	4	5	...	...	...	...	4	5	
	Ramphal and Rampatri farm	...	...	...	50	...	...	...	...	...	50	
	Total	...	4,085	...	7,794	...	...	...	...	...	11,879	
Southern Division of Kanara.	Myrobollams	1,314	16,918	...	...	...	...	...	...	1,314	16,918	
	Shigekái	11	397	...	...	...	...	...	...	11	397	
	Grazing fees	...	...	...	11,959	...	...	...	...	...	11,959	
	Honey	...	...	...	801	...	...	...	...	...	801	
	Grass	...	...	...	3	...	...	...	...	...	3	
	Catechu	...	...	...	2,550	...	...	...	...	...	2,550	
	Rampatri	...	...	...	2,015	...	...	...	...	...	2,015	
	Cinnamon	...	...	...	226	...	...	...	...	...	226	
	Fruit farm	...	...	...	2	...	...	...	...	...	2	
	Tapping fees on Baini trees	...	...	...	162	...	...	...	...	...	162	
	Nux vomica	...	...	...	65	...	...	...	...	...	65	
	Stones	...	...	1,361	88	...	...	...	...	1,361	88	
	Canes	...	...	481	198	4	1	...	...	485	199	
	Palm trees	...	...	61	70	...	...	...	...	61	70	
	Stakes	...	...	7	2	...	...	...	...	7	2	
	Thorns	...	...	15	2	...	...	...	...	15	2	
	Soppu (green leaves for manure)	...	...	1,095	49	...	...	...	...	1,095	49	
	Creepers	...	...	31	4	...	...	...	...	31	4	
	Total	...	17,315	...	18,196	...	1	...	...	...	35,512	
Belgaum Division.	Myrobollams	3,062	29,570	5	25	...	...	...	...	3,067	29,595	
	Grazing fees	...	...	...	30,329	...	...	...	...	...	30,329	
	Grass from Kurans	...	...	...	1,152	...	...	...	...	...	1,152	
	Grass from Depôts	...	...	...	32	...	...	...	...	...	32	
	Grass	...	...	447	7	...	...	...	...	447	7	
	Thorns	...	...	85	34	...	...	...	...	85	34	
	Do.	...	...	244	12	...	...	...	...	244	12	
	Do.	...	...	227	21	...	...	...	...	227	21	
	Karvi	...	...	246	186	...	...	...	...	246	186	
	Tapping fees on Baini trees	...	...	227	14	...	...	...	...	227	14	
	Canes	...	...	428	27	...	...	...	...	428	27	
	Wild date-palm leaves	...	...	578	305	...	...	...	...	578	305	
	Do. do.	...	...	4,954	155	...	...	...	...	4,954	155	
	Bandurgi branches	...	...	348	16	...	...	...	...	348	16	
	Palm trees	...	...	12	6	...	...	...	...	12	6	
	Mangoes	...	...	1,142	2	...	...	...	...	1,142	2	
	Shigekái farm	...	...	4,500	2,682	...	...	...	...	4,500	2,682	
	Wax farm	...	...	111	446	...	...	...	...	111	446	
	Cinnamon farm	...	...	1,650	331	...	...	...	...	1,650	331	
	Gum farm	...	...	329	701	...	...	...	...	329	701	
	Tarwad bark farm	...	...	3,200	3,000	...	...	...	...	3,200	3,000	
	Stones	...	...	5,684	395	...	...	...	...	5,684	395	
	Do.	...	...	1,851	29	...	...	...	...	1,851	29	
	Do.	...	...	8,982	40	...	...	...	...	8,982	40	
	Earth	...	...	3,000	2	...	...	...	...	3,000	2	
	Do.	...	...	87	7	...	...	...	...	87	7	
	Total	...	29,570	...	39,956	...	...	...	...	...	69,526	

FORM No. 58—*continued.*

Division.	Description of Produce.	Produce removed or utilized										Remarks.
		By Government Agency.		By purchasers.		By Free Grantees.		By Right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value	Quantity.	Value	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
Dharwar Division.	Grazing fees	...	...	...	27,362	...	...	...	...	...	27,362	
	Karanj seed farm	...	...	...	260	...	...	...	...	...	260	
	Bábul-pods do.	...	...	...	195	...	...	...	...	...	195	
	Myrobollams	...	...	Khandis.	12	95	...	26	...	...	...	...	...	121
	Stones	...	...	...	Cart-loads.	...	...	2,852	205	...	...	...	2,852	205
	Do	...	...	...	Donkey-loads.	...	...	155	8	...	...	...	155	8
	Earth	...	...	...	Cart-loads.	...	...	52	4	...	...	...	52	4
	Tapping fees on toddy trees	...	...	...		...	...	33	2	...	...	...	33	2
	Grass farm	...	...	...	...	...	...	...	1,705	...	...	...	...	1,705
	Do.	...	...	...	Bundles	...	...	1,800	4	...	...	...	1,800	4
	Do.	...	...	...	Head-loads.	...	...	3,843	120	...	...	...	3,843	120
	Thatching grass	...	...	...	Do.	...	...	330	6	...	...	...	330	6
	Broom grass	...	...	...	Cart-loads.	...	...	13	2	...	...	...	13	2
	Thorns	...	...	...	Heaps.	...	...	507	12	...	...	...	507	12
	Do.	...	...	...	Cart-loads.	...	...	890	73	...	...	...	890	73
	Do.	...	...	...	Animal-loads.	...	...	362	23	...	...	...	362	23
	Do.	...	...	...	Head-loads.	...	...	202	12	...	...	...	202	12
	Toddy tree leaves	...	...	...	Cart-loads.	...	...	13	13	...	...	...	13	13
	Do.	...	...	...	Animal-loads	...	...	383	24	...	...	...	383	24
	Do.	...	...	...	Head-loads.	...	...	124	2	...	...	...	124	2
	Tarwad bark farm	...	...	...	...	...	...	...	500	...	...	...	...	500
	Shigekái	...	...	...	...	Seers.	...	...	25	2	...	...	25	2
	Stones	...	...	...	...	No.	...	...	461	14	...	...	461	14
					Total	...	...	95	...	30,574	...	...	...	...	...	30,669
Bijápúr Division.	Stones	...	...	...	Cubic Feet.	...	...	211,543	3,187	...	...	...	211,543	3,187
	Earth	...	...	...	Do.	...	...	22,215	153	...	...	...	22,215	153
	Bandurgi leaves	...	...	...	Cart-loads.	...	...	143	41	...	...	...	143	41
	Do.	...	...	...	Bullock-loads.	...	...	52	7	...	...	...	52	7
	Do.	...	...	...	Head-loads.	...	...	7,412	470	...	...	...	7,412	470
	Tapping fees on toddy trees	...	...	...		...	...	...	18	...	...	...	...	18
	Bábul pods farm	...	...	...		...	...	...	703	...	...	...	...	703
	Honey do.	...	...	...		...	...	...	621	...	...	...	...	621
	Gum do.	...	...	...		...	...	...	94	...	...	...	...	94
	Tarwad bark do.	...	...	...		...	...	...	3,501	...	...	...	...	3,501
	Grass from Kurans	...	...	...		...	...	...	1,635	...	...	...	...	1,635
	Grazing fees	...	...	...		...	...	...	12,730	...	...	...	...	12,730
	Shan stones	...	...	...		...	...	...	141	...	...	...	...	141
					Total	...	...	...	...	23,301	...	...	...	...	...	23,301
Kolábá Division.	Grass and grazing fees	...	...	...		...	...	...	5,013	...	...	...	...	5,013
	Shigekái farm	...	...	...		...	...	...	1,677	...	...	...	...	1,677
	Shembi bark do.	...	...	...		...	...	...						
	Myrobollams do.	...	...	...		...	...	...						
	Karvi do.	...	...	...		...	...	...						
	Palm trees and leaves	...	...	...		...	...	...	98	...	...	...	...	98
	Tapping fees	...	...	...		...	...	...	112	...	...	...	...	112
	Thorns	...	...	...		...	...	...	3	...	...	...	...	3
					Total	...	...	...	...	6,903	...	...	...	...	...	6,903
Ratnagiri Division.	Myrobollams	...	...	...	Khandis.	...	...	2	60	...	...	...	2	60
	Grass	...	...	...		...	...	...	234	...	...	...	...	234
	Kával (loppings)	...	...	...	Head-loads.	...	...	287	10	...	...	...	287	10
	Káju seeds	...	...	...	Maunds.	4	8	...	...	...	...	...	4	8
					Total	...	8	...	304	...	...	...	...	312

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

FORM No. 59.

Forest Department, Bombay, Southern Circle.

Account of Timber and other Produce cut or collected by Government Agency and brought to sale Depôts or sold locally during the year 1894-95.

TIMBER.

Particulars.	No. or Quantity.	Cubic Feet.	Total of each head. No. or Quantity.	Total of each head. Cubic Feet.
Balance at the commencement of the year.				
Northern Division of Kanara.				
Teak logs	8,066	240,929		
Do. sleepers	46	69		
Do. slabs	8,078	2,617		
Do. poles	24	24		
Blackwood logs	1,655	37,373		
Junglewood logs	1,388	43,770		
Demarcation boards	104	104		
Junglewood poles	62	130		
Do. sleepers	264	500		
Do. slabs	2	4		
			19,089	325,520
Central Division of Kanara.				
Teak logs	5,415	84,453		
Do. sleepers	85	17		
Do. slabs	8,094	6,875		
Do. poles	388	2,275		
Do. round pieces	749	3,106		
Do. miscellaneous pieces	163	155		
Do. jiráiti pieces	201	9		
Do. round board	1	.....		
Sitting boards	33	.....		
Blackwood logs	200	4,584		
Junglewood logs	1,200	35,246		
			16,529	136,720
Southern Division of Kanara.				
Teak logs	1	4		
			1	4
Belgaum Division.				
Teak logs	4	147		
Junglewood poles	5	11		
			9	158
Kolába Division.				
Teak pieces of sorts	2,527	4,723		
Do. trees	7,724	39,081		
			10,251	43,804
Total, Balance	...	.....	46,479	506,206
Received from the Forests in Depôts.				
Teak logs	23,625	388,513		
Do. pieces	281	141		
Do. poles	25,102	94,535		
Do. jiráiti pieces	3,983	9,485		
Do. stumps	6	60		
Do. jiráiti stacks	213	6,396		
Do. rafters	13,329	66,459		
Do. pieces of sorts	851	3,079		
Blackwood logs	907	20,172		
Do. poles	10	32		
Do. rafters	42	210		
Junglewood logs	5,206	87,561		
Do. sleepers	1,104	2,195		
Do. slabs	527	1,050		
Do. round pieces	20	80		
Do. poles	1,826	9,192		
Do. sleeper pieces	1,201	3,000		
Do. jiráiti pieces	350	93		
Do. do. stacks	116	3,480		
Do. rafters	1,075	5,735		
Casuarina poles	13	45		
			79,787	701,507
Received from the Forests and sold locally.				
Teak pieces	83	196		
Do. logs	25	929		
Do. sleeper pieces	54	135		
Do. sleepers	16	48		
Do. pieces of sorts	972	3,228		
Junglewood logs	61	761		
Do. pieces	75	46		
Do. pole	1	1		
Blackwood logs	3	31		
Casuarina pieces	2	3		
Do. peg	1	.....		
Sugarcane mill-rollers	3	.....		
			1,296	5,378
Received by resale at the risk of the purchasers.				
Teak logs	413	3,976		
Do. poles	295	2,171		
Blackwood logs	11	299		
Junglewood logs	45	620		
Jiraitiwood	13	11		
			777	7,077
Total, Timber	...	.....	128,339	1,220,168

Particulars.	No. or Quantity.	Cubic Feet.	Total of each head. No. or Quantity.	Total of each head. Cubic Feet.
Removed by Purchasers from Depôts.				
Teak logs	22,885	332,440		
Do. pieces	281	141		
Do. poles	24,595	92,847		
Do. round pieces	749	3,106		
Do. miscellaneous pieces	163	155		
Do. sleepers	85	17		
Do. slabs	148	232		
Do. jiráiti pieces	3,301	7,339		
Do. round board	1	.....		
Do. stumps	6	60		
Do. jiráiti stacks	213	6,396		
Do. rafters	13,329	66,459		
Do. pieces of sorts	3,207	7,453		
Do. trees	7,724	39,081		
Blackwood logs	548	12,826		
Do. poles	9	29		
Do. rafters	42	210		
Junglewood logs	4,950	108,069		
Do. sleepers	1,177	2,335		
Do. slabs	527	1,050		
Do. poles	1,872	9,204		
Do. round pieces	20	80		
Sitting boards	33	.....		
Casuarina poles	13	45		
Junglewood jiráiti pieces	350	93		
Do. do. stacks	116	3,480		
Do. rafters	1,075	5,735		
			87,419	698,876
Sold locally.				
Teak pieces	83	196		
Do. logs	25	929		
Do. sleeper pieces	54	135		
Do. sleepers	16	48		
Do. pieces of sorts	972	3,228		
Junglewood logs	61	761		
Do. pieces	75	46		
Do. pole	1	1		
Blackwood logs	3	31		
Casuarina pieces	2	3		
Do. peg	1	.....		
Sugar-cane mill-rollers	3	.....		
			1,296	5,378
Resold at the Purchasers' risk.				
Teak logs	413	3,976		
Do. poles	295	2,171		
Blackwood logs	11	299		
Junglewood logs	45	620		
Jiráiti wood	13	11		
			777	7,077
Written off.				
Teak logs	46	3,111		
			46	3,111
Used by the Department.				
Junglewood logs	47	212		
			47	212
Balance at the close of the year.				
Northern Division of Kanara.				
Teak logs	9,664	309,070		
Do. sleepers	46	69		
Do. slabs	8,078	2,617		
Do. poles	34	92		
Blackwood logs	1,971	44,276		
Do. pole	1	3		
Junglewood logs	907	28,737		
Demarcation boards	104	104		
Junglewood sleepers	178	340		
Do. slabs	2	4		
Do. poles	7	34		
			20,992	385,343
Central Division of Kanara.				
Teak logs	4,511	69,274		
Do. poles	421	2,872		
Do. slabs	7,946	6,643		
Teak jiráiti pieces	883	2,165		
Junglewood logs	1,890	29,559		
Do. poles	3	33		
Blackwood logs	242	5,019		
Junglewood sleepers	13	20		
Do. sleeper pieces	1,201	3,000		
			17,110	118,575
Southern Division of Kanara.				
Teak log	1	4		
			1	4
Belgaum Division.				
Teak poles	464	1,023		
Do. logs	4	147		
Blackwood log	1	8		
Junglewood poles	11	62		
			480	1,240
Kolába Division.				
Teak pieces of sorts	171	349	171	349
Total, Balance	...	.....	38,754	505,514
Total, Timber	...	.....	128,339	1,220,168

FORM No. 59—*continued.*

Particulars.	No. or Quantity.	Cubic Feet.	Total of each head. No. or Quantity.	Total of each head. Cubic Feet.	Particulars.	No. or Quantity.	Cubic Feet.	Total of each head. No. or Quantity.	Total of each head. Cubic Feet.
				FIREWOOD.					
BALANCE AT THE COMMENCEMENT OF THE YEAR.					REMOVED BY PURCHASERS FROM DEPÔTS.				
Central Division, Kanara.					Firewood	...	2,975,322	...	2,975,322
Firewood	...	7,562	..	7,562	SOLD LOCALLY.				
Southern Division, Kanara.					Firewood	...	45,282	...	45,282
Firewood	...	2,718	..	2,718	WRITTEN OFF.				
Belgaum Division.					Firewood	...	956	...	956
Firewood	...	467,336	...	467,336	BALANCE AT THE CLOSE OF THE YEAR.				
Dharwar Division.					*Northern Division, Kanara.*				
Firewood	...	25,848	...	25,848	Firewood	...	3,460	...	3,460
Kolába Division.					*Central Division, Kanara.*				
Firewood	...	611	...	611	Firewood	...	90	...	90
Ratnagiri Division.					*Southern Division, Kanara.*				
Firewood	...	2,500	...	2,500	Firewood	...	4,554	...	4,554
Total, Balance ...	..	.....	...	506,575	*Belgaum Division.*				
RECEIVED FROM THE FORESTS IN DEPÔTS.					Firewood	...	722,716	...	722,716
Firewood	...	3,235,855	...	3,235,855	*Dharwar Division.*				
RECEIVED FROM THE FORESTS AND SOLD LOCALLY.					Firewood	...	32,544	...	32,544
					Kolába Division.				
Firewood	...	45,282	...	45,282	Firewood	...	2,788	...	2,788
					Total, Balance ...	...	.....	...	3,787,712
Total, Firewood ...	...	.....	...	3,787,712					
				BAMBOOS.					
RECEIVED FROM THE FORESTS IN DEPÔTS.					REMOVED BY PURCHASERS FROM DEPÔTS.				
Bamboos	520	.....			Bamboos	520	.....		
Bamboo mats...	3	.....	523	.....	Bamboo mats	3	.....	523	.....
Total Bamboos ...	...	.....	523	.....				523	.....
				SANDALWOOD.					
BALANCE AT THE COMMENCEMENT OF THE YEAR.					REMOVED BY PURCHASERS FROM DEPÔTS.		K. m. lb.		
Central Division, Kanara.		K. m. lb.		K. m. lb.	Sandalwood billets				
Sandalwood billets	2	0 0 15½			Do. roots	6,253	73 14 6½		
Do. do.	1	.....			Saw dust and filings	1,094	.....		
Do. trees	75	.....	78	0 0 15½	Saw dust	...	1 17 23		
Southern Division, Kanara.					Whitewood billets	...	0 3 0		
Whitewood billets...	110	1 5 11	110	1 5 11	Sandalwood miscellaneous pieces ..	797	13 11 22		
Total Balance ...	...	.....	188	1 5 26½	Do. chips, carts	115	.....		
RECEIVED FROM THE FORESTS IN DEPÔT.					Do. bark...	23	.....		K. m. lb.
Sandalwood trees	1,032	.....			Do. refused pieces	60	.....		
Do. billets...	1,405	27 9 8				5	.....	8,347	89 6 23¼
Whitewood do.	687	12 6 11			CONVERTED IN DEPÔTS.				
Saw dust and filings	...	1 17 23			Sandalwood trees...	1,107	.....	1,107	.....
Sandalwood chips, carts	22	.....	3,146	41 13 14	SOLD LOCALLY.				
RECEIVED BY CONVERSION IN DEPÔTS.					Sandalwood trees..				
Sandalwood billets...	4,845	46 6 17¾			Do. Branches	10,853	.....		
Saw dust	...	0 3 0			Do. firewood pieces	76	.....		
Sandalwood miscellaneous pieces ...	115	.....			Do. do. head-loads ...	5	.....		
Do. bark...	60	.....				6	.....	10,940	.....
Do. chips, carts	1	.....			LOST BY DRYAGE.				
Do. refused pieces	5	.....			Sandalwood billets	...	0 2 7	...	0 2 7
Do. roots...	1,094	.....	6,120	46 9 17¾	BALANCE AT THE CLOSE OF THE YEAR.				
RECEIVED FROM THE FORESTS AND SOLD LOCALLY.					Nil.				
Sandwood trees	10,853	.....							
Do. branches	76	.....							
Do. firewood pieces	5	.....							
Do. do. head-loads ..	6	.....	10,940	.....					
Total, Sandalwood ...	...	.....	20,394	89 9 2½		...	.....	20,394	89 2½

FORM No. 59—*continued.*

Particulars.	No. or Quantity.	Cubic Feet.	Total of each head. No. or Quantity.	Total of each head. Cubic Feet.	Particulars.	No. or Quantity.	Cubic Feet.	Total of each head. No. or Quantity.	Total of each head. Cubic Feet.
Balance at the Commencement of the Year.			**MINOR FOREST PRODUCE.**		**Removed by Purchasers from Depôts.**				
Northern Division, Kanara.					Hardas ... ...Khandis...	...	K. m. lbs. 5,452 1 4		K. m. lbs.
Teak seed ... ...Chittis ...	88½	.....			Do. ... ...Baskets ...	79	.....	...	5,452 1 4
Hardas ... ...Baskets...	87	.....	175½	.....	Canes ... ...Head-loads	12	.....		
Central Division, Kanara.					Hemp ... ... Do. ...	1	.....		
Grass ... ...Bundles...	12,830	.....		.....	Leaves ... ... Do. ...	18	.....		
		Kd. m. lbs.		K. m. lbs.	Thorns ... ... Do. ...	21	.....		
Hardas ... ...Khandis...	...	46 21 0	...	46 21 0½	Grass ... ...Bundles ...	10,830	.....		
Shigekái ... ... Do. ...	...	0 2 14			Shigekái ... ...Khandis ...	...	21 0 7	10,961	21 0 ½
			12,830	0 2 14	**Written off.**				
Southern Division, Kanara.					Shigekái ... ...Khandis ...	...	4 16 1½	...	4 16 1
Hardas ... ...Khandis...	...	5 22 6	...	5 22 6	**Used by the Department.**				
Shigekai ... ... Do. ...	...	14 8 10½	...	14 8 10½					
Total, Balance ...	...	.....	13,005½		Hardas ... ... Khandis...	...	0 15 4	...	0 15
		Hardas ...	Khandis...	52 18 6	Teak seed ... ...Chittis...	284½	.....		
		Shigekái ...	,, ..	14 10 24½	Bamboo seed	...	0 0 1		
Received from the Forests in Depôts.					Grass... ... ...Pulleys...	3,800	.....		
					Cashew nuts	...	0 3 14	4,084½	0 3 15
Hardas ... ...Khandies...	...	5,402 17 13	...	5,402 17 13	**Balance at the close of the Year.**				
Bamboo seed ... ...Lbs. ...	...	0 0 1			*Northern Division, Kanara.*				
Teak seed ... ...Chittis ...	200	.....			Teak seed ... ...Chittis ...	4	.....		
Wild pepper	...	0 0 8			Hardas ... ...Baskets...	8	.....		
Canes ... ... Head-loads.	12	.....			Wild pepper	...	0 0 8		
Hemp ... ... Do. ...	1	.....			Divi-Divi pods	...	1 12 0		
Leaves ... ... Do. ...	18	.....						12	1 12
Thorns ... ... Do. ...	21	.....			*Central Division, Kanara.*				
Divi-Divi pods	...	1 12 0			Shigekái	...	0 5 14		
Grass ... ...Bundles ...	1,800	.....						...	0 5 14
Shigekái ... ...Khandis ...	...	13 9 0			*Southern Division, Kanara.*				
Cashew nuts	...	0 3 14			Hardas (Myrabollams)... Khandis...	...	1 19 11	...	1 19 11
			2,052	15 4 23	Shigekái ... ... Do. ...	...	1 18 2	...	1 18 2
					Belgaum Division.				
					Hardas ... .Khandis...	...	1 0 0	...	1 0 0
Total, Minor Forest Produce ...	...	.....	15,057½	.....			.....	15,057½	.....
		Harda ...	Khandis...	5,455 10 19			Hardas... K	handis ...	5,455 10 19
		Other produ	ce ,, ...	29 16 7½			Other produ	ce ,, ...	29 16 7½
			DRIFT AND WAIF-WOOD.						
Received in Depôts.					**Balance at the close of the Year.**				
					Ratndgiri Division.				
Teak logs...	5	99	5	99	Teak logs...	5	99	5	99
Total, Drift and Waif Wood ...	...	.....	5	99		...	.....	5	99

J. L. L MacGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

FORM No. 60.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Abstract showing the value of Timber and other Produce at Sale-Depôts for the year 1894-95.

Description of Timber and other Produce.	On hand at the commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8	9	10
TIMBER.			Rs.			Rs.	Rs.	Rs.	—
Northern Division of Kanara.									
Teak logs	8,066	240,929	3,26,724	9,664	3,09,070	4,63,676	1,36,952	...	
Do. poles	24	24	24	34	92	34	10	...	
Do. sleepers	46	69	10	46	69	10	...	...	
Do. slabs	8,078	2,617	100	8,078	2,617	100	...	...	
Blackwood logs	1,655	37,373	23,918	1,971	44,276	44,276	20,358	...	
Do. poles	...	.....	...	1	3	1	1	...	
Junglewood logs	1,388	43,770	31,594	907	28,737	28,737	...	2,857	
Demarcation boards	104	104	52	104	104	52	...	...	
Junglewood poles	62	130	15	7	34	5	...	10	
Do. sleepers	264	500	180	178	340	365	185	...	
Do. slabs	2	4	1	2	4	1	...	...	
Total	...	.....	3,82,618	...	.....	5,37,257	1,54,639	...	
Central Division of Kanara.									
Logs	6,815	124,283	1,25,000	6,643	1,03,852	1,03,000	...	22,000	Include teak, blackwood and junglewood.
Teak round pieces	749	3,106	600	...	.....	...	...	600	
Do. sleepers	85	17	30	...	.....	...	...	30	
Do. slabs	8,094	6,875	300	7,946	6,643	200	...	100	
Do. poles	388	2,275	550	421	2,872	600	50	...	
Junglewood poles	...	.....	...	3	33	6	6	...	
Do. sitting boards	33	.....	3	....	.....	...	...	3	
Teak round board	1	.....	...	...	.....	...	...	...	
Do. Jiraiti pieces	201	9	2	883	2,155	600	598	...	
Do. ends and pieces	163	155	40	...	.....	...	...	40	
Junglewood sleepers	...	.....	...	13	20	26	26	...	
Do. sleeper pieces	...	.....	...	1,201	3,000	3,600	3,600	...	
Total	...	.....	1,26,525	...	.....	1,08,032	...	18,493	
Southern Division of Kanara.									
Teakwood logs	1	4	3	1	4	3	...	...	
Total	...	.....	3	...	.....	3	...	...	
Belgaum Division.									
Teak logs	4	147	100	4	147	100	...	...	
Do. poles	...	.....	...	464	1,023	201	201	...	
Blackwood log	...	.....	...	1	8	5	5	...	
Junglewood poles	5	11	1	11	62	12	11	...	
Total	...	.....	101	...	.....	318	217	...	
Kolábá Division.									
Teak pieces of sorts	2,527	4,723	1,299	171	349	27	...	1,272	
Do. trees	7,724	39,081	2,896	...	.....	...	...	2,896	
Total	...	.....	4,195	...	.....	27	...	4,168	
Total, Timber	...	.....	5,13,442	...	.....	6,45,637	1,32,195	...	
FIREWOOD.									
Northern Division of Kanara.									
Firewood	...	.....	...	...	3,460	216	216	...	
Central Division of Kanara.									
Firewood	...	7,562	300	...	90	5	...	295	
Southern Division of Kanara.									
Firewood	...	2,718	151	...	4,554	253	102	...	
Belgaum Division.									
Firewood	...	4,67,336	46,043	...	7,22,716	69,393	23,350	...	

FORM No. 60—*continued.*

Description of Timber and other Produce.	On hand at the commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year	Against the year.	
1	2	3	4	5	6	7	8	9	10
FIREWOOD—*continued.*			Rs.			Rs.	Rs.	Rs.	
Dharwar Division.									
Firewood	...	25,848	1,580	...	32,544	2,365	785	...	
Kolába' Division.									
Firewood	...	611	47	...	2,788	140	93	...	
Ratna'giri Division.									
Firewood	...	2,500	25	...	.....	...	...	25	
Total, Firewood ...	...	.....	48,146	...	.....	72,372	24,226	...	
SANDALWOOD.									
Central Division of Kanara.									
Sandalwood billets...	3	0 0 15½	3	...	.....	...	...	3	
Do. trees	75	.....	20	...	.....	...	...	20	
Total ...	...	.....	23	...	.....	...	...	23	
Southern Division of Kanara.									
Whitewood	110	1 5 11	12	...	.....	...	...	12	
Total, Sandalwood ...	...	.....	35	...	.....	...	...	35	
MINOR FOREST PRODUCE.									
Northern Division of Kanara.									
Hardas (Myrobollams) ... Baskets.	87	.....	70	8	.....	4	...	66	
Teak seed ... ... Chittis.	88½	.....	2	4	.....	1	...	1	
Wild pepper ... ... Lbs.	...	.....	...	8	.....	2	2	...	
Divi-Divi pods ... ... Khandis.	...	.....	...	...	1 12 0	25	25	...	
Total ...	...	.....	72	...	.....	32	...	40	
Central Division of Kanara.									
Grass-bundles	12,830	.....	30	...	.....	...	...	30	
Shigekai ... ... Khandis.	...	*0 2 14	1	...	0 5 14	5	4	...	*Error in la year's Retur now rectified.
Hardas (Myrabollams) ... „	...	46 21 0	550	...	.....	...	...	550	
Total ...	...	.....	581	...	.....	5	...	576	
Southern Division of Kanara.									
Hardas (Myrabollams) ... Khandis.	...	5 22 6	91	...	2 0 0	25	...	66	
Shigekai ... ... „	...	14 8 10½	294	...	2 0 0	43	...	251	
Total ...	...	.....	385	...	.....	68	...	317	
Belgaum Division.									
Hardas (Myrabollams) ... Khandis.	...	.....	...	...	1 0 0	6	6	...	
Total, Minor Forest Produce ..	...	.....	1,038	...	.....	111	...	927	
DRIFT AND WAIF WOOD.									
Ratnagiri Division.									
Teak logs	...	.....	...	5	99	60	60	...	
Total, Drift and Waif Wood ...	...	.....	..	...	.....	60	60	...	
Grand Total ...	...	.....	5,62,661	...	.....	7,18,180	1,55,519	...	

Net difference in favour of the year Rs. 1,55,519.

J. L. L. MacGREGOR,
Conservaror of Forests, Southern Circle.

Belgaum, 27th September 1895.

FORM No. 60A.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Abstract showing the Value of Live and Dead Stock for the year 1894-95.

Description of Live and Dead Stock.	On hand at commencement of the year.		On hand at close of the Year.		Difference in Value.		Remarks.
	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.	
		Rs.		Rs.	Rs.	Rs.	
Direction.							
Office tents	2	902	2	902	...	...	
Tools, plant and office furniture ...	...	521	...	533	12	...	Unserviceable articles worth Rs. 85 were sold and written off.
Total ...	...	1,423	...	1,435	12	...	
Northern Division of Kanara.							
Forest bungalow at Haliyál ...	1	2,700	1	2,700	...	...	
Range-Forest-Office at Haliyal ...	1	900	1	900	...	...	
Divisional Forest-Office at Haliyál.	1	350	1	350	...	...	
Forest nákás	11	3,324	15	4,824	1,500	...	
Forest bungalow at Kadra ...	1	8,100	1	8,100	...	...	
Kodibág Depôt-house ...	1	4,960	1	4,960	...	...	
Hill tent	1	350	1	350	...	...	
Tools, plant and office furniture ...	...	3,363	...	3,650	287	...	
Total ...	...	24,047	...	25,834	1,787	...	
Central Division of Kanara.							
Forest bungalows at Yellápur ...	2	3,050	2	3,050	...	...	
Workshop at Yellápur ...	1	114	1	114	...	...	
Rest-house at Kolikeri ...	1	908	1	908	...	...	
Náka-houses	20	6,101	20	6,301	200*	...	*Cost of additions to the náka-house at Mundgod.
Rest-house at Bilki	1	300	1	300	...	...	
Do. at Ramanguli ...	1	150	1	150	...	...	
Old Range Office at Yellápur ...	1	250	1	250	...	...	
Range-Forest-Office at Ankola ...	1	300	1	300	...	...	
Tent	1	350	1	350	...	...	
Tools, plant and office furniture ...	...	4,799	...	4,935	136	...	
Carts	35	1,225	24	840	...	385	11 of the carts were sold.
Bullocks	2	53	2	53	...	...	
Total ...	...	17,600	...	17,551	336	385	
Southern Division of Kanara.							
Divisional Forest-Office at Sirsi ...	1	1,717	1	1,717	...	...	
Depôt-house at Sirsi	1	1,219	1	1,219	...	...	
Forest nákás	20	5,602	20	5,602	...	...	
Range-Forest-Office at Honávar ...	1	750	1	750	...	...	
Office tent	1	350	1	350	...	...	
Tools, plant and office furniture ...	...	3,619	...	3,705	86	...	Unserviceable articles valued at Rs. 293 were sold and written off during the year.
Total ...	...	13,257	...	13,343	86	...	

FORM No. 60 A—*continued.*

Description of Live and Dead Stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in Value.		Remarks.
	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.	
Belgaum Division.		Rs.		Rs.	Rs.	Rs.	
Tent	1	350	1	350	...	...	
Rest-house	1	2,500	1	2,500	...	...	
Forest nákás	17	7,230	13	6,039	...	1,191	4 Nákas were dismantled.
Tools, plant and office furniture ...	...	4,307	...	3,907	...	400	The difference against the year is owing to some of the articles having been transferred to other Division and some having been written off the accounts.
Total ...	...	14,387	...	12,796	...	1,591	
Dharwar Division.							
Rest-house	1	800	1	800	...	...	
Watch-houses	9	2,700	9	2,700	...	...	
Depôt-house at Hubli ..	1	999	1	999	...	...	
Tent	1	350	1	350	...	...	
Tools, plant and office furniture ...	...	3,354	...	3,482	128	...	
Total ...	...	8,203	...	8,331	128	...	
Bijápúr Division.							
Tent (old)	1	150	...	...	...	150	The old tent was sold.
„ (new)	...	...	1	310	310	...	
Tools, plant and office furniture ...	...	926	...	746	...	180	Useless articles worth Rs. 221 were sold and written off during the year.
Total ...	...	1,076	...	1,056	310	330	
Kolábá Division.							
Hill tent, old	1	250	1	250	...	...	
Swiss cottage tent	1	380	1	380	...	...	
Forest boat with fittings ...	1	300	1	300	...	...	
Tools, plant and office furniture ...	...	3,122	...	3,236	114	...	Unserviceable articles valued at Rs. 18 were sold and written off the accounts.
Total ...	...	4,052	...	4,166	114	...	
Ratnagiri Division.							
Hill tent (old)	1	200	1	200	...	...	
Tent (new)	...	...	1	215	215	...	
Tools, plant and office furniture ...	...	736	...	900	164	...	
Total ...	...	936	...	1,315	379	...	
Working Plans Division.							
Tents	—3	699	6	1,184	485	...	
Tools, plant and office furniture ...	...	3,091	...	3,206	115	...	
Total ...	...	3,790	...	4,390	600	...	
Grand Total ...	...	88,771	...	90,217	3,752	2,306	

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

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FORM No. 61.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Summary of Revenue and Expenditure of the different Divisions for the Forest year 1894-95 (July 1894 to June 1895).

Budget Heads.	Direction.	North Kanara Division.	Central Kanara Division.	Southern Kanara Division.	Belgaum Division.	Kolába Division.	Dharwar Division.	Ratnagiri Division.	Bijápúr Division.	Total for the Forest-year July 1894 to June 1895-
REVENUE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Timber and other Produce removed from the Forests by Government Agency—										
a. Timber	.....	4,24,992 14 0	1,67,751 2 4	819 14 3	33,657 7 0	5,514 12 0	27,129 12 3	6 0 0	40 2 0	6,59,911 15 10
b. Firewood and charcoal	.....	70,036 0 6	2,120 11 0	582 0 0	1,84,471 13 1	100 4 0	14,639 8 0	16 4 0	.....	2,72,766 8 7
c. Bamboos	.....	.....	0 12 0	.....	.....	.....	.....	.....	.....	0 12 0
d. Sandalwood	.....	.....	230 4 7	9,033 6 6	.....	.....	11,552 0 9	.....	316 0 0	21,131 11 10
e. Grass and other minor produce	.....	10,735 9 11	4,084 5 2	17,315 1 2	32,026 5 9	.....	109 6 0	.....	.....	64,270 12 0
Total I ...	.....	5,06,564 8 5	1,74,187 3 1	27,750 5 11	2,50,155 9 10	5,615 0 0	53,430 11 0	22 4 0	356 2 0	10,18,081 12 3
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—										
a. Timber	.....	22,239 12 8	16,247 0 3	13,705 13 6	11,714 4 6	1,17,353 6 5	976 1 3	3,418 1 5	847 11 0	1,86,502 3 0
b. Firewood and charcoal	.....	27,497 3 6	5,696 6 4	10,042 0 1	6,917 4 0	28,442 5 10	646 5 10	1,066 3 8	8,718 3 9	89,026 1 0
c. Bamboos	.....	40,675 10 0	11,581 13 2	1,147 8 0	8,190 6 8	.....	6,822 4 7	.....	257 7 6	68,675 1 11
d. Grazing and fodder grass	.....	6,635 2 3	5,691 7 6	11,962 6 11	31,519 12 10	5,011 14 6	29,170 8 11	245 0 9	14,364 12 4	1,04,601 2 0
e. Other minor produce	.....	3,186 0 0	2,103 2 11	6,165 1 0	8,430 5 1	2,917 8 6	1,574 9 8	91 0 8	8,936 6 4	33,404 2 2
Total II ...	.....	1,00,233 12 5	41,319 14 2	43,022 13 6	66,772 1 1	1,53,725 3 3	39,189 14 3	4,820 6 6	33,124 8 11	4,82,208 10 1
III.—Drift and Waif Wood and Confiscated Forest Produce	.....	223 11 9	91 10 6	542 13 9	204 12 0	1,245 1 7	18 11 0	14 4 3	46 11 0	2,387 11 10
Total III ...	.....	223 11 9	91 10 6	542 13 9	204 12 0	1,245 1 7	18 11 0	14 4 3	46 11 0	2,387 11 10
IV.—Revenue from Forests not managed by Government—										
a. Duty on foreign timber and other forest produce	.....	.....	.....	.....	.....	43 14 4	.....	.....	.....	43 14 4
b. Bevenue from shared and private forests.	.....	.....	.....	.....	.....	12 13 0	.....	33 9 0	.....	46 6 0
Total IV ...	.....	.....	.....	.....	.....	56 11 4	.....	33 9 0	.....	90 4 4
V.—Miscellaneous—										
a. Fines and forfeitures	.....	94 11 1	100 0 0	.....	.....	628 1 11	22 8 0	45 0 0	31 0 6	921 5 6
b. Refunds	100 0 0	75 5 10	316 12 3	235 0 4	14 4 11	328 7 0	66 7 4	197 5 1	67 6 8	1,401 1 5
c. Other sources	17 0 6	819 5 3	632 12 9	758 2 0	13,146 1 11	3,481 11 5	891 14 8	74 4 2	115 9 6	19,936 14 2
Total V ...	117 0 6	989 6 2	1,049 9 0	993 2 4	13,160 6 10	4,438 4 4	980 14 0	316 9 3	214 0 8	22,259 5 1
Grand Total Revenue ...	117 0 6	6,08,011 6 9	2,16,648 4 9	72,309 3 6	3,30,292 13 9	1,65,080 4 6	93,620 2 3	5,207 1 0	33,741 6 7	15,25,027 11 7

EXPENDITURE.

A.—Conservancy and Works.

I.—Timber and other Produce removed from the Forest by Government Agency—										
a. Timber	.....	1,58,826 2 4	43,325 8 6	54 2 3	7,528 15 1	850 0 6	5,686 13 7	1 11 0	.....	2,16,273 5 3
b. Firewood and charcoal	.....	40,634 8 8	965 2 6	377 5 8	62,198 4 3	.....	4,559 8 6	8 13 6	.....	1,08,743 11 1
c. Bamboos	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
d. Sandalwood	.....	.....	387 13 3	624 11 2	18 12 0	.....	237 11 8	.....	.....	1,269 0 1
e. Grass and other minor produce... ...	.....	4,178 5 3	2,981 4 11	10,724 3 4	10,782 11 8	.....	36 1 3	16 14 0	.....	28,719 8 5
Total A I ...	.....	2,03,639 0 3	47,659 13 2	11,780 6 5	80,528 11 0	850 0 6	10,520 3 0	27 6 6	.....	3,55,005 8 10
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers ...	.....	694 13 9	511 12 7	1,050 6 6	1,758 2 10	4,621 3 10	1,860 7 3	63 5 9	948 2 7	11,508 7 1
Total A II ...	.....	694 13 9	511 12 7	1,050 6 6	1,758 2 10	4,621 3 10	1,860 7 3	63 5 9	948 2 7	11,508 7 1
III.—Drift and Waif Wood and Confiscated Forest Produce	.....	32 1 3	6 2 0	7 3 0	2 4 0	28 6 0	2 1 6	2 8 0	0 12 0	81 5 9
Total A III ...	.....	32 1 3	6 2 0	7 3 0	2 4 0	28 6 0	2 1 6	2 8 0	0 12 0	81 5 9
IV.—Revenue from Forests not managed by Government—										
a. Duty on foreign timber and other forest produce	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total A IV ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
V.—Rent of leased Forests and Payment to Shareholders in Forests managed by Government...	.....	.....	.....	.....	.....	23,873 8 4	.....	.....	.....	23,873 8 4
Total A V ...	.....	.....	.....	.....	.....	23,873 8 4	.....	.....	.....	23,873 8 4
VI.—Live Stock, Stores, Tools and Plant—										
a. Purchase of cattle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Feed and keep of cattle	.....	.....	66 5 0	.....	.....	.....	.....	.....	.....	66 5 0
c. Purchase of stores, tools and plant ...	90 10 0	235 2 0	491 1 6	378 8 0	296 12 9	261 14 10	130 9 9	443 3 6	365 1 0	2,692 15 4
Total A VI ...	90 10 0	235 2 0	557 6 6	378 8 0	296 12 9	261 14 10	130 9 9	443 3 6	365 1 0	2,759 4 4
VII.—Communications and Buildings—										
a. Roads and bridges	.....	633 12 0	630 7 3	.....	543 5 5	.....	.....	37 2 3	.....	1,844 10 11
b. Buildings	.....	1,907 11 1	745 11 1	481 14 1	131 9 2	107 4 0	73 15 6	3 13 3	.....	3,451 14 2
c. Other works	.....	664 15 1	159 7 11	477 3 0	.....	.....	1 0 0	.....	.....	1,302 10 0
Total A VII ...	.....	3,206 6 2	1,535 10 3	959 1 1	674 14 7	107 4 0	74 15 6	40 15 6	.....	6,599 3 1

Budget Heads.	Direction.	Kánara Northern Division.	Kánara Central Division.	Kánara Southern Division.	Belgaum Division.	Kolába Division.	Dhárwár Division.	Ratnágiri Division.	Bijápur Division.	Total for Forest year, July 1894 to June 1895.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
EXPENDITURE—*continued.*										
A.—CONSERVANCY AND WORKS—*continued.*										
VIII.—Organization, Improvement, and Extension of Forests—										
a. Demarcation	.....	2 0 0	3,353 3 8	2,550 9 8	0 6 0	56 12 0	.....	20 0 0	8 8 0	5,991 7 4
b. Cost of settlements; compensation for land and rights	.....	12,597 5 0 1,270 1 10	.....	3,070 2 7	1,271 13 8	....	2,094 8 0	....	....	19,033 13 3 1,270 1 10
1. Exchange compensation allowance ...	.....	12,070 13 3	.....	.....	.....	19,792 1 11	.....	.....	.....	31,862 15 2
c. Surveys	.....	*—3,672 13 3 31 8 6	4,941 6 9	.....	592 11 2	*+2,461 14 10 6,236 5 10	.....	.....	.....	*—1,210 14 5 11,802 0 3
d. Working-plans	.....	133 4 9	824 11 9	24 7 0	89 5 0	86 13 9	53 0 0	59 8 9	.....	1,271 3 0
e. Sowing and planting	.....	13,068 6 3	5,954 6 9	15 0 0	3,113 6 3	684 3 4	549 11 0	17 4 6	473 7 9	23,875 13 10
f. Protection from fire	.....	.....	117 9 0	.....	.....	.....	10 12 0	.....	.....	128 5 0
g. Other works	.....									
Total A VIII ...	.....	39,173 7 7 *—3,672 13 3	15,191 5 11	5,660 3 3	5,067 10 1	26,856 4 10 *+2,461 14 10	2,707 15 0	96 13 3	481 15 9	95,235 11 8 *—1,210 14 5
IX—Miscellaneous—										
a. Law charges	.....	.....	.....	20 0 0	.....	.....	.....	.....	.....	20 0 0
b. Other charges	.....	—446 14 0	780 13 2	474 7 6	—228 6 4	389 12 3	253 15 0	310 0 9	833 8 3	2,367 4 7
Total A IX ...	.....	—446 14 0	780 13 2	494 7 6	—228 6 4	389 12 3	253 15 0	310 0 9	833 8 3	2,387 4 7
Total A.—CONSERVANCY AND WORKS. ...	90 10 0	2,46,534 1 0 *—3,672 13 3	66,242 15 7	20,330 3 9	88,100 0 11	56,988 6 7 *+2,461 14 10	15,550 3 0	984 5 3	2,629 7 7	4,97,450 6 8 *—1,210 14 5
B.—ESTABLISHMENTS.										
I.—Salaries—										
a. Conservators	13,200 0 0	.....	.....	.....	.....	.....	.....	.....	.....	13,200 0 0
b. Superior Officers	2,000 0 0	9,117 4 2	15,378 7 6	9,850 0 0	10,654 12 9	24,590 2 2	10,480 0 0	3,295 2 7	9,734 13 5	95,100 10 7
c. Subordinate Forest and Depôt Establishments	..... 6,740 12 5	16,580 8 8 2,586 7 2	11,258 1 10 3,471 1 8	11,619 12 10 2,241 6 9	22,413 1 4 2,307 9 11	27,923 9 1 3,669 15 3	13,856 2 1 1,817 4 11	7,464 10 6 742 0 0	6,861 6 11 864 0 0	1,17,977 5 3 24,440 10 1
d. Office Establishments	687 3 0	134 7 3	648 6 3	.....	.....	631 9 10	107 13 1	.....	.....	2,209 7 5
e. Deputation and Special Allowances ...	2,474 13 8	1,152 14 6	2,306 13 2	1,913 1 9	1,914 8 5	3,060 4 8	1,984 0 10	.....	1,808 15 3	16,615 8 3
f. Exchange Compensation Allowance ...										
TOTAL B. I ...	25,102 13 1	29,571 9 9	33,062 14 5	25,624 5 4	37,290 0 5	59,875 9 0	28,245 4 11	11,501 0 0	19,269 3 7	2,69,543 9 7

II.—Travelling Allowances—											
a. Conservators	2,400 0 0	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,400 0 0
b. Superior Officers	769 15 1	1,834 11 4	4,269 4 0	1,502 6 8	2,729 0 8	4,757 10 4	1,963 12 4	900 1 7	1,500 0 0		20,226 14 0
c. Subordinate Forest and Depôt Establishments	.....	1,768 2 8	840 15 11	866 4 6	1,409 12 7	1,426 9 0	1,072 15 11	629 13 5	242 13 4		8,257 7 4
d. Office Establishments	1,812 13 5	782 0 0	1,063 2 7	679 0 2	699 3 10	1,386 14 5	584 1 3	312 8 0	327 8 10		7,647 4 6
TOTAL B II. ...	4,982 12 6	4,384 14 0	6,173 6 6	3,047 11 4	4,838 1 1	7,571 1 9	3,620 13 6	1,842 7 0	2,070 6 2		38,531 9 10
III.—Contingencies—											
a. Stationery	6 8 6	233 10 2	228 4 8	406 15 5	420 6 3	392 13 0	211 14 10	122 2 3	117 0 0		2,139 11 1
b. Carriage of Tents and Records	518 4 3	464 7 7	419 6 10	338 12 3	190 0 0	394 15 0	126 9 9	109 11 0	88 15 0		2,651 1 8
c. Rents, Rates and Taxes	100 0 0	31 0 0	220 0 0	7 8 0	374 15 0	109 15 6	57 0 0	226 11 5	73 0 0		1,200 1 11
d. Pay of Police Guards	.....	.....	.....	.....	.....	.....	.....	.....	.....		.....
e. Official Postage	289 13 0	360 7 6	405 5 0	513 0 0	443 1 0	785 0 0	354 0 0	257 4 0	140 8 0		3,548 6 6
f. Sundries	327 10 5	153 9 4	175 3 2	310 2 2	274 9 2	289 1 10	87 14 9	63 13 3	144 14 10		1,826 14 11
Payments to Officers of other Provinces... ...	.....	.....	.....	.....	.....	.....	.....	.....	.....		.....
TOTAL B III ...	1,242 4 2	1,243 2 7	1,448 3 8	1,576 5 10	1,702 15 5	1,971 13 4	837 7 4	779 9 11	564 5 10		11,366 4 1
Total, B.—ESTABLISHMENTS ...	31,327 13 9	35,199 10 4	40,684 8 7	30,248 6 6	43,831 0 11	69,418 8 1	32,703 9 9	14,123 14 0	21,903 15 7		3,19,441 7 6
GRAND TOTAL OF EXPENDITURE ...	31,418 7 9	2,81,733 11 4	1,06,927 8 2	50,578 10 3	1,31,931 1 10	1,26,406 14 8	48,253 12 9	15,108 3 3	24,533 7 2		8,16,891 13 2
		*—3,672 13 3				*+2,461 14 10					*—1210 14 5

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* The total cost of Forest Surveys for the financial year 1894-95 adjusted in March 1895 (Final) being included in this account, the difference between the expenditure for April 1894 to June 1894 and that for April 1895 to June 1895 has been shown here in block type as communicated by the Superintendent, Bombay Forest Surveys, in his No. 251, dated 4th August 1894 and No. 284, dated 24th July 1895. It has not been included in the account current as it will be adjusted in the accounts for March 1896, Final.

	April to June 1894.	April to June 1895.	Difference.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
North Kánara	6,280 13 3	+2,608 0 0	—3,672 13 3
Kolába	4,447 13 8	+6,909 12 6	2,461 14 10

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No. $\frac{\text{F.}}{14816}$

Forwarded to the Conservator of Forests, Southern Circle, under Section 267 of the Forest Department Code.

Accountant General's Office, Bombay,
4th September 1895.

O. T. BARROW,
Accountant General.

FORM No. 62.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Annual Account Current for the Forest-year 1894-95 (1st July 1894 to 30th June 1895).

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To Opening Balance	.....	347 15 1	1. Refunds and Drawbacks—Refunds—		
,, VIII. Assessed Taxes—Income Tax—Part I—			Divided Heads, Forest	2,361 7 9	2,361 7 9
Deductions by Government from Salaries and Pensions.	3,795 5 3	3,795 5 3	11. Forest (as per Summary)	8,16,891 13 2	8,16,891 13 2
Part IV Do. on other sources of Income	383 15 4	383 15 4	19. Law and Justice—		
,, IX. Forest (as per Summary)	15,25,027 11 7	15,25,027 11 7	Jails, District Jails, Contingencies	.....	.....
,, XII. Interest—			Revenue Deposits (Forests)	51,604 12 11	51,604 12 11
Interest on Arrears of Revenue	60 13 8	60 13 8	Cheques and Bills (Forests cheque cancelled)	2,619 4 10	2,619 4 10
,, XXV. Miscellaneous—			Advances Recoverable—		
Sale-proceeds of Stores, &c.	8 8 0	8 8 0	Forest Advances	4,15,099 1 8	4,15,099 1 8
,, Unclaimed Deposits—			Tentage Advances	.....	.....
Other Deposits	1,820 13 9	1,820 13 9	Objection Book Advances	6,850 1 0	6,850 1 0
	68,440 10 11	68,440 10 11	Cash Recoveries	7,820 13 11	7,820 13 11
,, Revenue Deposits (Forest)	.....	8,54,056 10 9	Forest Remittances—		
,, Cheques and Bills (Departmental cheques), Forest...	3,92,097 14 3	3,92,097 14 3	Remittances to Treasuries	12,85,577 4 9	12,85,577 4 9
,, Advances Recoverable—	.....	.....	Inter-divisional Transfers	.....	.....
Forest Advances	38,162 12 10	38,162 12 10	Inter-departmental Transfers	2 12 0	2 12 0
Tentage Advances	7,820 13 11	7,820 13 11	Bombay Uncovenanted Service Family Pension Fund—		
Objection Book Advances	4,907 10 10	4,907 10 10	Widows Branch	11 5 5	11 5 5
,, Cash Recoveries...	.....	.....	Life Assurance Branch	68 8 8	68 8 8
,, Forest Remittances—	1,141 0 4	1,141 0 4	Accounts Current—		
Remittances to Treasuries			Account between Bombay and Military, Bombay—		
Inter-divisional Transfers			IV. Items Adjustable by Military	2,543 12 1	2,543 12 1
Inter-departmental Transfers			Account between Bombay and Public Works Department, Bombay—		
,, Bombay Uncovenanted Service Family Pension Fund—	826 3 2	826 3 2	(Ordinary Branches)—		
Widows' Branch	113 14 4	113 14 4	IV. Items adjustable by Public Works Department	1,357 13 9	1,357 13 9
Life Assurance Branch			Account between Bombay and Public Works Department—		
,, Account between India and Bombay—			(Railway Branch)—		
III. Items Adjustable by India—	.....	.....	Southern Maratha Railway—		
Bengal Military Fund	.....	.....	IV. Items Adjustable by Public Works Department... ...	3,07,133 4 0	3,07,133 4 0
Bengal Military Orphan Fund	21 2 0	21 2 0	Account between Bombay and India—		
Bengal Uncovenanted Service Family Pension Fund			IV. Items adjustable by India—Bengal Uncovenanted Service Family Pension Fund	68 8 8	68 8 8
,, Account between Bombay and Public Works Department, Bombay—					
IV. Payment into Treasuries by Civil Officers on Account of Public Works Department...	1,178 13 8	1,178 13 8			
			Closing Balance ...	202 1 1	202 1 1
Total ...	.....	29,00,212 13 8	Total ...	.....	29,00,212 13 8

No. F./14811.

Forwarded to the Conservator of Forests, Southern Circle, under Section 267 of the Forest Department Code.

Accountant General's Office,
Bombay, 2nd September 1895.

O. T. BARROW,
Accountant General.

ANNUAL FORM No. 63.

	III.—Drift and Waif Wood and Confiscated Forest Produce	12 13 9	78 12 9	91 10 6	91 10 6	.....
	V. c. Other sources	.....	635 5 9	635 5 9	632 12 9	2 9 0
	Total, Central Division, Kanara ...	68,928 14 5	2,03,470 13 10	2,72,399 12 3	2,16,231 8 6	56,168 3 9
Southern Division, Kanara.	*I. Timber and other Produce removed from the Forests by Government Agency—*					
	a. Timber	.....	1,785 10 11	1,785 10 11	819 14 3	965 12 8
	b. Firewood and charcoal	.....	582 0 0	582 0 0	582 0 0	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	9,033 6 6	9,033 6 6	9,033 6 6	.....
	e. Grass and other minor produce ...	.....	17,315 1 2	17,315 1 2	17,315 1 2	.....
	II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—					
	a. Timber	235 3 6	13,754 7 9	13,989 11 3	13,705 13 6	283 13 9
	b. Firewood and charcoal	4,823 12 0	9,985 15 9	14,809 11 9	10,042 0 1	4,767 11 8
	c. Bamboos	2 0 0	1,145 8 0	1,147 8 0	1,147 8 0	.....
	d. Grazing and fodder grass ...	.....	11,962 6 11	11,962 6 11	11,962 6 11	.....
	e. Other minor produce	9 12 0	7,100 10 0	7,110 6 0	6,165 1 0	945 5 0
	III.—Drift and Waif Wood and Confiscated Forest Produce	.....	542 13 9	542 13 9	542 13 9	.....
	Total, Southern Division, Kanara ...	5,070 11 6	73,208 0 9	78,278 12 3	71,316 1 2	6,962 11 1
Belgaum Division.	*I.—Timber and other Produce removed from the Forests by Government Agency—*					
	a. Timber	803 6 0	32,854 1 0	33,657 7 0	33,657 7 0	.....
	b. Firewood and charcoal	36,442 12 0	1,48,029 1 1	1,84,471 13 1	1,84,471 13 1	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce ...	.....	32,026 5 9	32,026 5 9	32,026 5 9	.....
	II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—					
	a. Timber	.....	11,714 4 6	11,714 4 6	11,714 4 6	.....
	b. Firewood and charcoal	.....	6,917 4 0	6,917 4 0	6,917 4 0	.....
	c. Bamboos	.....	8,258 6 8	8,258 6 8	8,190 6 8	68 0 0
	d. Grazing and fodder grass ...	.....	31,519 12 10	31,519 12 10	31,519 12 10	.....
	e. Other minor produce	.....	8,430 5 1	8,430 5 1	8,430 5 1	.....
	III.—Drift and Waif Wood and Confiscated Forest Produce	83 8 0	121 4 0	204 12 0	204 12 0	.....
	V. c. Other sources	5,904 8 0	12,799 9 11	18,704 1 11	13,146 1 11	5,558 0 0
	Total, Belgaum Division ...	43,234 2 0	2,92,670 6 10	3,35,904 8 10	3,30,278 8 10	5,626 0 0

ANNUAL FORM No. 63—*continued.*

Division.	Particulars.	Outstandings at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Dhárwár Division.	*I.—Timber and other Produce removed from the Forests by Government Agency—*						
	a. Timber	6,664 11 9	29,110 8 0	35,775 3 9	27,129 12 3	8,645 7 6	
	b. Firewood and charcoal	.....	14,639 8 0	14,639 8 0	14,639 8 0	.....	
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	11,552 0 9	11,552 0 9	11,552 0 9	.....	
	e. Grass and other minor produce ...	.....	109 6 0	109 6 0	109 6 0	.....	
	II.—Timber and other produce removed from the Forests by Consumers or Purchasers—						
	a. Timber	.....	976 1 3	976 1 3	976 1 3	.....	
	b. Firewood and charcoal	.....	646 5 10	646 5 10	646 5 10	.....	
	c. Bamboos	.....	6,822 4 7	6,822 4 7	6,822 4 7	.....	
	d. Grazing and fodder grass ...	.....	29,170 8 11	29,170 8 11	29,170 8 11	.....	
	e. Other minor produce	.....	1,574 9 8	1,574 9 8	1,574 9 8	.....	
	III.—Drift and Waif Wood and Confiscated Forest Produce	.....	18 11 0	18 11 0	18 11 0	.....	
	Total, Dharwar Division ...	6,664 11 9	94,620 0 0	1,01,284 11 9	92,639 4 3	8,645 7 6	
Bijápur Division.	*I.—Timber and other Produce removed from the Forests by Government Agency—*						
	a. Timber	.....	40 2 0	40 2 0	40 2 0	.....	
	b. Firewood and charcoal	.....	.....	.....	.....	.....	
	c. Bamboos	.....	.....	.....	.....	.....	
	d. Sandalwood	.....	316 0 0	316 0 0	316 0 0	.....	
	e. Grass and other minor produce ...	.....	.....	.....	.....	.....	
	II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—						
	a. Timber	.....	847 11 0	847 11 0	847 11 0	.....	
	b. Firewood and charcoal	.....	8,718 3 9	8,718 3 9	8,718 3 9	.....	
	c. Bamboos	.....	257 7 6	257 7 6	257 7 6	.....	
	d. Grazing and fodder grass ...	.....	14,364 12 4	14,364 12 4	14,364 12 4	.....	
	e. Other minor produce	.....	8,936 6 4	8,936 6 4	8,936 6 4	.....	

	III.—Drift and Waif Wood and Confiscated Forest Produce	.....	46 11 0	46 11 0	46 11 0	.....
	Total, Bijápur Division ...	.....	33,527 5 11	33,527 5 11	33,527 5 11	.....
Kolábá Division.	*I.—Timber and other Forest Produce removed from the Forests by Government Agency—*					
	a. Timber	710 0 0	4,804 12 0	5,514 12 0	5,514 12 0	.....
	b. Firewood and charcoal	.....	100 4 0	100 4 0	100 4 0	.....
	c. Bamoobs	.....	.....	.....	.....	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce ...	.....	.....	.....	.....	.....
	II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—					
	a. Timber	913 8 0	1,19,678 10 5	1,20,592 2 5	1,17,353 6 5	3,238 12 0
	b. Firewood and charcoal	*1,529 14 0	26,912 7 10	28,442 5 10	28,442 5 10	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Grazing and fodder grass ...	.....	5,011 14 6	5,011 14 6	5,011 14 6	.....
	e. Other minor produce	1,027 8 0	1,890 0 6	2,917 8 6	2,917 8 6	.....
	III.—Drift and Waif Wood and Confiscated Forest Produce	.....	1,245 1 7	1,245 1 7	1,245 1 7	.....
	V. a. Fines	.....	978 1 11	978 1 11	628 1 11	350 0 0
	Total, Kolábá Division ...	4,180 14 0	1,60,621 4 9	1,64,802 2 9	1,61,213 6 9	3,588 12 0
Ratnágiri Division.	*I.—Timber and other Forest Produce removed from the Forests by Government Agency—*					
	a. Timber	.....	6 0 0	6 0 0	6 0 0	.....
	b. Firewood and charcoal	.....	16 4 0	16 4 0	16 4 0	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Sandalwood	.....	.....	.....	.....	.....
	e. Grass and other minor produce ...	.....	.....	.....	.....	.....
	II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—					
	a. Timber	.....	3,418 1 5	3,418 1 5	3,418 1 5	.....
	b. Firewood and charcoal	1 14 10	1,064 4 10	1,066 3 8	1,066 3 8	.....
	c. Bamboos	.....	.....	.....	.....	.....
	d. Grazing and fodder grass ...	.....	245 0 9	245 0 9	245 0 9	.....
	e. Other minor produce	.....	91 0 8	91 0 8	91 0 8	.....
	III.—Drift and Waif Wood and Confiscated Forest Produce	.....	14 4 3	14 4 3	14 4 3	.....
	Total, Ratnagiri Division ...	1 14 10	4,854 15 11	4,856 14 9	4,856 14 9	.....

*Error in the last return now rectified.

ANNUAL FORM No. 63—*concluded.*

Division.	Particulars.	Outstanding at commencement of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	R. a. p.	Rs. a. p.	Rs. a. p.	
Total of the Circle.	*I.—Timber and other Produce removed from the Forests by Government Agency—*						
	a. Timber	2,09,328 8 3	5,89,037 12 8	7,98,366 4 11	6,59,911 15 10	1,38,454 5 1	
	b. Firewood and charcoal	40,137 6 4	2,35,741 11 4	2,75,879 1 8	2,72,766 8 7	3,112 9 1	
	c. Bamboos	.....	0 12 0	0 12 0	0 12 0	.....	
	d. Sandalwood	.....	21,131 11 10	21,131 11 10	21,131 11 10	.....	
	e. Grass and other minor produce ...	2,398 14 0	62,553 1 11	64,951 15 11	64,270 12 0	681 3 11	
	II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—						
	a. Timber	5,659 9 1	1,88,205 3 7	1,93,864 12 8	1,86,502 3 0	7,362 9 8	
	b. Firewood and charcoal	30,289 6 4	89,448 15 6	1,19,738 5 10	89,026 1 0	30,712 4 10	
	c. Bamboos	2 0 0	68,742 1 11	68,744 1 11	68,675 1 11	69 0 0	
	d. Grazing and fodder grass ...	.....	1,04,601 2 0	1,04,601 2 0	1,04,601 2 0	.....	
	e. Other minor produce	1,039 2 0	33,818 5 2	34,857 7 2	33,404 2 2	1,453 5 0	
	III.—Drift and Waif Wood and Confiscated Forest Produce	96 5 9	2,291 6 1	2,387 11 10	2,387 11 10	.....	
	V.—Miscellaneous—						
	a. Fines	.....	1,271 5 6	1,271 5 6	921 5 6	350 0 0	
	c. Other sources	5,904 8 0	19,592 15 2	25,497 7 2	19,936 14 2	5,560 9 0	
	Grand Total ...	2,94,855 11 9	14,16,436 8 8	17,11,292 4 5	15,23,536 5 10	1,87,755 14 7	

Note.—The revenue under Budget heads "*IV* and "*Vb.*" is Rs. 90-4-4 and Rs. 1,401-1-5, respectively. The total amount realized during the year is Rs. 15,25,027-11-7 (*vide* Form No. 61).

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

Belgaum, 27th September 1895.

FORM No. 64.

FOREST DEPARTMENT, BOMBAY, SOUTHERN CIRCLE.

Outstandings and Liabilities on account of Contractors and Disbursers for the Forest-year 1894-95 (July 1894 to June 1895).

Division.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.		REMARKS.
	At commencement of year.	Recoveries in Cash and Value of supplies and work done during year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).	
Contractors.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Kanara, Northern ...	.....	42,700 0 0	42,700 0 0	13,600 0 0	58,733 6 0	72,333 6 0	29,633 6 0	...	
Kanara, Central ...	.....	21,398 12 4	21,398 12 4	13,538 1 4	14,411 8 0	27,949 9 4	6,550 13 0	...	
Kanara, Southern ...	.....	2,750 0 0	2,750 0 0	.....	2,750 0 0	2,750 0 0	.....	...	
Belgaum	.....	26,751 4 0	26,751 4 0	9,200 0 0	40,110 6 0	49,310 6 0	22,559 2 0	...	
Kolábá	.....	192 15 0	192 15 0	.....	201 1 0	201 1 0	8 2 0	...	
Dharwar	.....	20 0 0	20 0 0	.....	20 0 0	20 0 0	.....	...	
Bijápúr	.....	.....	.....	.....	50 0 0	50 0 0	50 0 0	...	
Total Contractors ...	.....	93,812 15 4	93,812 15 4	36,338 1 4	1,16,276 5 0	1,52,614 6 4	58,801 7 0	...	
Kanara, Northern ...	.....	63,125 6 10	63,125 6 10	2,810 1 11	63,693 12 5	66,503 14 4	3,378 7 6	...	
Kanara, Central ...	.....	47,477 9 11	47,477 9 11	2,293 8 1	46,707 12 0	49,001 4 1	1,523 10 2	...	
Kanara, Southern ...	.....	30,182 13 6	30,182 13 6	3,532 1 2	32,000 0 0	35,532 1 2	5,349 3 8	...	
Belgaum	.....	52,138 2 3	52,138 2 3	3,099 7 3	50,991 10 5	54,091 1 8	1,952 15 5	...	
Kolábá	.....	61,533 8 9	61,533 8 9	2,912 13 1	61,785 13 10	64,698 10 11	3,165 2 2	...	
Dharwar	.....	28,194 13 10	28,194 13 10	1,329 2 6	28,110 0 9	29,439 3 3	1,244 5 5	...	
Ratnagiri	.....	8,259 13 11	8,259 13 11	286 11 5	8,160 3 3	8,446 14 8	187 0 9	...	
Bijápúr	0 8 0	7,372 9 11	7,373 1 11	88 1 3	7,373 8 0	7,461 9 3	88 7 4	...	
Total Disbursers ...	0 8 0	2,98,284 14 11	2,98,285 6 11	16,351 14 8	2,98,822 12 8	3,15,174 11 4	16,889 4 5	...	
Grand Total ...	0 8 0	3,92,097 14 3	3,92,098 6 3	52,690 0 0	4,15,099 1 8	4,67,789 1 8	75,690 11 5	...	

No. $\frac{F}{14812}$.

Forwarded to the Conservator of Forests, Southern Circle, under Section 267 of the Forest Department Code.

Accountant General's Office,
Bombay, 2nd September 1895.

O. T. BARROW,
Accountant General.

FORM No. 65.

Forest Department, Bombay, Southern Circle.

Financial results of the year 1894-95.

Division.	Timber and other Produce removed from the Forests by Government Agency.		Other Revenue.		Formation, Protection and Improvement of Forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Direction	...	...	117	31,419	...	117	31,419	
Northern Division of Kanara	5,06,789	2,23,109	1,01,223	4,569	54,056	6,08,012	2,81,734	
Central Division of Kanara	1,74,187	62,017	42,461	15,366	29,545	2,16,648	1,06,928	
Southern Division of Kanara	27,931	19,670	44,378	17,047	13,862	72,309	50,579	
Belgaum Division ...	2,50,156	1,02,818	80,137	12,715	16,398	3,30,293	1,31,931	
Dharwar do. ...	53,431	32,372	40,189	2,117	13,764	93,620	48,253	
Bijápúr do. ...	356	...	33,386	7,624	16,909	33,742	24,533	
Kolábá do. ...	5,615	26,346	1,59,465	38,300	61,760	1,65,080	1,26,406	
Ratnagiri do. ...	36	3,561	5,171	3,904	7,643	5,207	15,108	
Total ...	10,18,501	4,69,893	5,06,527	1,33,061	2,13,937 —1,211	15,25,028	8,16,891 —1,211	

Belgaum, 27th September 1895.

J. L. L. MacGREGOR,
Conservator of Forests, Southern Circle.

No. 250 OF 1896.

REVENUE DEPARTMENT.

Camp Bijápur, 21st January 1896.

Forwarded to Government. The report of the Conservator of Forests, though dated the 2nd November last; was received in this office only yesterday, the rough proof having been sent to the undersigned on the 28th December last.

2. The total Forest area of the Southern Circle decreased by 54 square miles during the year 1894-95, owing to the dis-afforestment of 98 square miles in Belgaum and Dhárwár during final settlement, and to the afforestation of 44 square miles of new selections in the same districts.

3. The transfer was effected of 305 square miles from "Protected" to "Reserved," the total areas under these heads becoming 2,498 and 2,820 square miles respectively.

4. In Form No. 47 attached to the report the progress of Forest Settlement up to date is thus shown :—

	Square miles.
Already settled at commencement of year	2,455
Finally settled during the year...	349
Undergoing settlement at commencement of year ...	2,223
Taken in hand during year	289
Total ...	5,316

5. The total Forest area being 5,318 square miles there apparently remain only 2 square miles in which the settlement work remains to be taken in hand. But in paragraph 19 the Conservator appears to put the figure at 400 square miles. His paragraphs 6 to 23 with their figures are however rather hard to assimilate, and it is not very clear what actual progress was made during the year under report. The Conservator omits to mention that Mr. Sheppard submitted his report on 176 villages of the Yellápur, Sirsi and Siddápur Tálukas before the close of the Forest year. Little work remains to be done outside Kánara.

6. The paragraphs 24—26 relating to demarcation are rather meagre and a reference to the work recorded in Form 48 of the Central and Southern Divisions of Kánara shows that 98 miles of boundary were artificially demarcated and 111 miles of boundary were repaired during the year.

7. There appears to be some want of uniformity in dealing with this subject. Dhárwár is credited with 3,385 miles of boundaries, while the other Divisions seem to have to manage with no boundaries at all or with very few.

8. Paragraphs 28—34 relate to the Forest Survey. The Conservator's remarks are confined to the subject of cost, which is shown to be gradually decreasing.

9. The work carried out during the Forest year is shown in Form 49 over the signature of the Superintendent, Bombay Forest Surveys, a copy of whose annual report has been received in this office, together with the Survey Commissioner's review, the following extract from which summarises the operations carried on in the Southern Division :—

"*Kánara Forests.*—Work was confined to triangulation and traverse. This is in accord with the plan sketched out last year of endeavouring to make greater progress by securing a large area for future detail survey. The area triangulated was 725 square miles in 3 Tálukas (Yellápur, Sirsi and Ankola). The cost compares very favourably with that of similar work last year in Kánara. Traverse was done in 75 square miles of Kárwár, at a cost of Rs. 29 per square mile. Colonel Hobday remarks that two causes combined to raise the cost,—difficulty of country, and inexperience of the Surveyor. The latter was evidently the principal reason, for the Kárwár Táluka does not present such difficulties as other tálukas of Kánara."

"*Kolába Forests.*—Work in Pen Táluka was continued, and completed in Alibág. The cost of detail survey, including the triangulation, was about Rs. 186 per square mile. The cost of the detail survey, excluding triangulation, is a little less than last year."

10. The actual progress made up to date by the Forest Survey is not easily ascertainable. A rough sketch showing the progress made in the various sheets, in triangulation, traverse, and detail survey, would be of much assistance in facilitating a comprehension of the figures given, and the Acting Commissioner would suggest that the Superintendent be requested to attach such a sketch to his future Annual Reports. The sketch might also indicate progress in the preparation and issue of maps, which is shown to have been in arrears since 1888-89.

11. Paragraphs 35—50 relate to Working Plans and their control. Of the two parties at work, No. I completed the organization of the Kolába Forests. Physical and other difficulties appear to have combined to raise the cost from 2 annas 8 pies to 4 annas 1·6 pies per acre. No. II party completed the organization of the unhealthy and difficult "Gund-group," and transferred operations to easier ground in the Central Division of Kánara, where a better outturn may be looked for as the result of next season's work.

12. In his 39th and following paragraphs the Conservator explains in some detail the operations that are necessitated by the character of the Kánara forests, and he appears to successfully avoid the charge of over-elaboration. The Acting Commissioner had the pleasure, years ago, of superintending heavy timber operations in the "Gund-group" as well as in other parts of the principal Forests of Kánara, and can well appreciate the difficulties described and dealt with.

13. The working plan referred to in paragraph 48 was submitted to Government with this office No. 471 of 11th February 1895.

14. Paragraphs 51—56.—The expenditure on communications and buildings was small and was chiefly confined to the Northern Division of Kánara.

15. The total number of breaches of the Forest law reported to have been committed during the year was 1,718 against 1,600 in 1893-94: they are classified below :—

Nature of offence.	Dealt with by Magistrates.	Dealt with under Section 67.	Not detected.
Injury to forest by fire	7	5	637
Unauthorised fellings	269	354	314
Grazing without permission	8	20	.....
Other offences	80	24	.....
Total ...	364	403	951

16. The following table shows the results of prosecutions instituted in regard to 446 offences, *i. e.* 364 committed during the year and 82 pending trial at the beginning of the year :—

District.	1893-94.			1894-95.			Percentages of failures.	
	Prosecutions.	Convictions.	Acquittals.	Prosecutions.	Convictions.	Acquittals.	1893-94.	1894-95.
Belgaum	32	26	5	32	21	8	15	27
Bijápur	10	10	...	22	21	1	...	4·5
Dhárwár	19	12	5	16	8	8	26	50
Kánara	166	78	82	85	37	28	51·2	43
Kolába	291	187	33	278	238	25	11	9·5
Ratnágiri	63	43	18	13	10	2	28	16·6

17. The rise in the percentage of failures in Belgaum is attributed to the dishonesty of witnesses: in Dhárwár it is not accounted for: in Bijápur it is trifling. Elsewhere there is a satisfactory decline in this percentage.

18. The following table gives details of the cases dealt with under Section 67 of the Act:—

District.	1893-94.				1894-95.			
	Total cases disposed of.	Number commuted.	Number discharged.	Compensation recovered.	Total cases disposed of.	Number commuted.	Number discharged.	Compensation recovered.
				Rs.				Rs.
Belgaum	86	84	2	36	115	115	...	147
Bijápur	12	12	...	15	22	22	...	20
Dhárwár	35	5	30	1	11	11	...	12
Kánara...	41	40	1	435	126	126	...	597
Kolába...	181	181	...	618	122	122	...	788
Ratnágiri	39	39	...	71	20	20	...	7
Total ...	394	361	33	1,176	416	416	...	1,571

19. The majority of these cases appear to have related to the misappropriation of timber and firewood and to have been dealt with leniently. The increase in Kánara was largely due to an outbreak of kumri cultivation in the Supa Petha, referred to hereafter. Greater severity appears to have been dispensed in Kolába than elsewhere, where in 21 cases fines of over Rs. 10 were exacted, and in one case alone the fine reached Rs. 150. But from the Conservator's 75th paragraph it would appear that large numbers of people were there implicated in single cases, and in the absence of detail it is impossible to understand on what principle such cases are entered as single cases and what their relative importance may have been.

20. There appear to be errors in the tabular statement contained in paragraph 76, which detract from the value of the conclusions drawn in paragraph 77. Not 361, but 407, cases came up for disposal under Section 67 in 1893-94; and the 416 cases entered under 1894-95 include 13 cases pending from 1893-94. In 1893-94 thirty-three cases were disposed of without exaction of any penalty. In 1894-95 penalties were exacted in all cases. The facts therefore are that fewer fresh cases have come up under Section 67 during the year under report, and that greater strictness has been shown in dealing with them.

21. Paragraphs 78-79.—It is not clear from the quotation given whether the Bijápur Collector intended to find fault with the exaction of penalties in trivial cases, or with the omission to exact a penalty for the offence committed as well as for the damage done. But anyhow the Conservator shows that it is necessary to take up apparently trivial cases in a district where protection is important and the value of the forests is prospective rather than real.

22. It is difficult to form any opinion of the success or failure of the measures taken for protection against fire. The figures given in paragraphs 81 and 93—of areas specially protected and of areas that escaped fire without the adoption of special measures,—when added together exceed in three instances the total Forest areas of the respective divisions, *viz.*:—

	Total area.	Protected from fire or escaped fire without protection.
	Square miles.	Square miles.
Northern Division of Kánara ...	1,189	1,304
Belgaum	675	683
Dhárwár	382	398

23. Also the area in which measures for protection are taken is understood (see Conservator's 84th paragraph) to be limited to Reserved Forest. The area of the Reserved Forest of the Northern Division of Kánara is 466 square miles (Form 46), whereas protection from fire is represented in paragraph 81 to have been carried out there in 567 square miles.

24. In paragraph 88 the Conservator gives it as his opinion that the greater part of the Siddápur and Sirsi ranges was no doubt burnt. This opinion was formed on personal observation (94). Yet his subordinates report that 99·6 per cent. of the Forests of the Southern Division of Kánara escaped conflagration. It is impossible in the face of such statements to know what figures are reliable and what are not.

25. Paragraphs 96—102.—The area closed to all animals remained almost unaltered, while an addition of 114 square miles was made to that closed to browsers only. It may be noted that the total area of the Forests of the Division is 5,318 square miles; that the figures given in the Conservator's 96th paragraph as showing the distribution of the area with regard to grazing total up to 5,345 square miles; and that by a strange manipulation of figures the area is increased to 5,372 square miles in Form 54.

26. To an officer fresh from the Deccan districts the numbers of cattle impounded in the various Divisions of the Southern Circle appear abnormally small, although there was an increase of about 35 per cent. over the returns of the preceding year. This increase mainly occurred in the closed forests of Dharwár and Kolába, and is accounted for by departmental activity. It may have had something to do with the drought which the Conservator mentions elsewhere. It does not seem at all improbable that the vast difference between the impoundings that take place in the Southern Circle and those in the Deccan districts is chiefly due to the character of the forests. The absence of trees from a large portion of the Deccan forests facilitates the view and capture of trespassing cattle.

27. The season was not a favourable one for natural reproduction by seed, but progress appears to have been satisfactory notwithstanding. No doubt fencing must be introduced where illicit grazing cannot be controlled: otherwise all attempt at afforestation must there be abandoned as useless. The Conservator's remarks (108-109) on artificial regeneration are very interesting, and doubtless a vast deal more can be achieved at less expense by the method described than by the formation of regular plantations.

28. The following table extracted from Form No. 57 contrasts the outturn of major forest produce during 1894-95 with that of the previous year:—

Produce.	Outturn.		+	—
	1893-94.	1894-95.		
	Cubic feet.	Cubic feet.		
Timber—				
Rough logs	334,861	304,342	...	30,519
„ poles	757,744	511,170	...	246,574
Sawn or square	504,634	488,248	...	16,386
Miscellaneous	96,465	101,760	5,295	...
Fuel	7,036,613	7,768,107	731,494	...
Sandalwood—				
Khandis	118 4 18	88 3 18	...	30 1 0
Sandalwood	.....	322 0 0	322 0 0	...
Trees, poles	9,199 (No.)	21,471 (No.)	12,272	...
Bamboos	4,591,141 (No.)	5,246,723	655,582	...
Dry bamboos, cart-loads ...	.....	604	604	...

29. The causes of increase and decrease are summarised as briefly as possible by the Conservator. There was a remarkable increase in the demand for fuel and bamboos and an extensive clearance of sandal trees from málki numbers took place in Belgaum and Dhárwár.

30. The following table compares the receipts and charges for the financial year 1894-95 with those of the previous year :—

Year.	Revenue.	Expenditure.	Surplus net Revenue.
	Rs.	Rs.	Rs.
1893-94 ...	15,12,407	8,39,773	6,72,634
1894-95 ...	15,49,856	8,30,072	7,19,784
	+37,449	—9,701	+47,150

31. The increase in the net revenue is assigned to a large recovery of outstandings and to the diminution of expenditure under "Works," and the Conservator remarks that had the myrobalan crop been up to the average the net revenue would have shown a better result by about three-quarters of a lákh of rupees.

32. The renascence of kumri cultivation in the Supa Petha of the Northern Division of Kánara was a remarkable event of the year. Government have passed orders on the subject in their Resolution No. 9643 of 5th December 1895.

32. Government will doubtless notice with pleasure the Conservator's acknowledgment of the good work done by his Divisional Officers and others. The Acting Commissioner shares the regret with which the death is recorded of Mr. J. M. Fernandez, Extra Assistant Conservator.

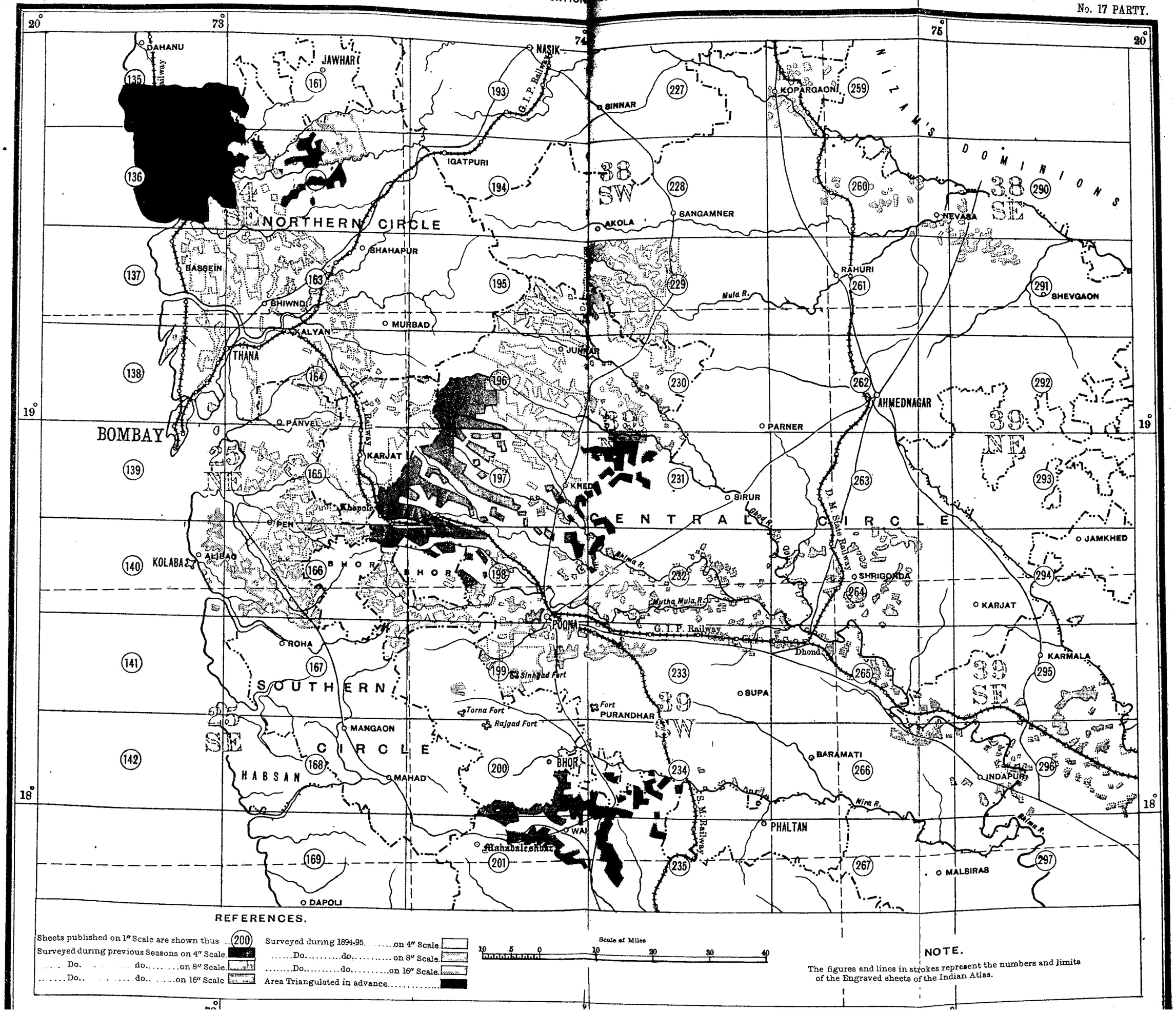
E. J. EBDEN,
Acting Commissioner, S. D.

BOMBAY SURVEY.

INDEX TO THE FOREST SURVEYS IN PORTIONS OF THE NORTHERN AND CENTRAL CIRCLES.

1894-95.

No. 17 PARTY.



REFERENCES.

Sheets published on 1" Scale are shown thus ..200

Surveyed during previous Seasons on 4" Scale.

. . . Do. . . . . do. . . . . on 8" Scale.

. . . . . Do. . . . . do. . . . . on 16" Scale

Surveyed during 1894-95. . . . . on 4" Scale.

. . . . . Do. . . . . do. . . . . on 8" Scale.

. . . . . Do. . . . . do. . . . . on 16" Scale.

Area Triangulated in advance. . . . . .

Scale of Miles

10 5 0 10 20 30 40

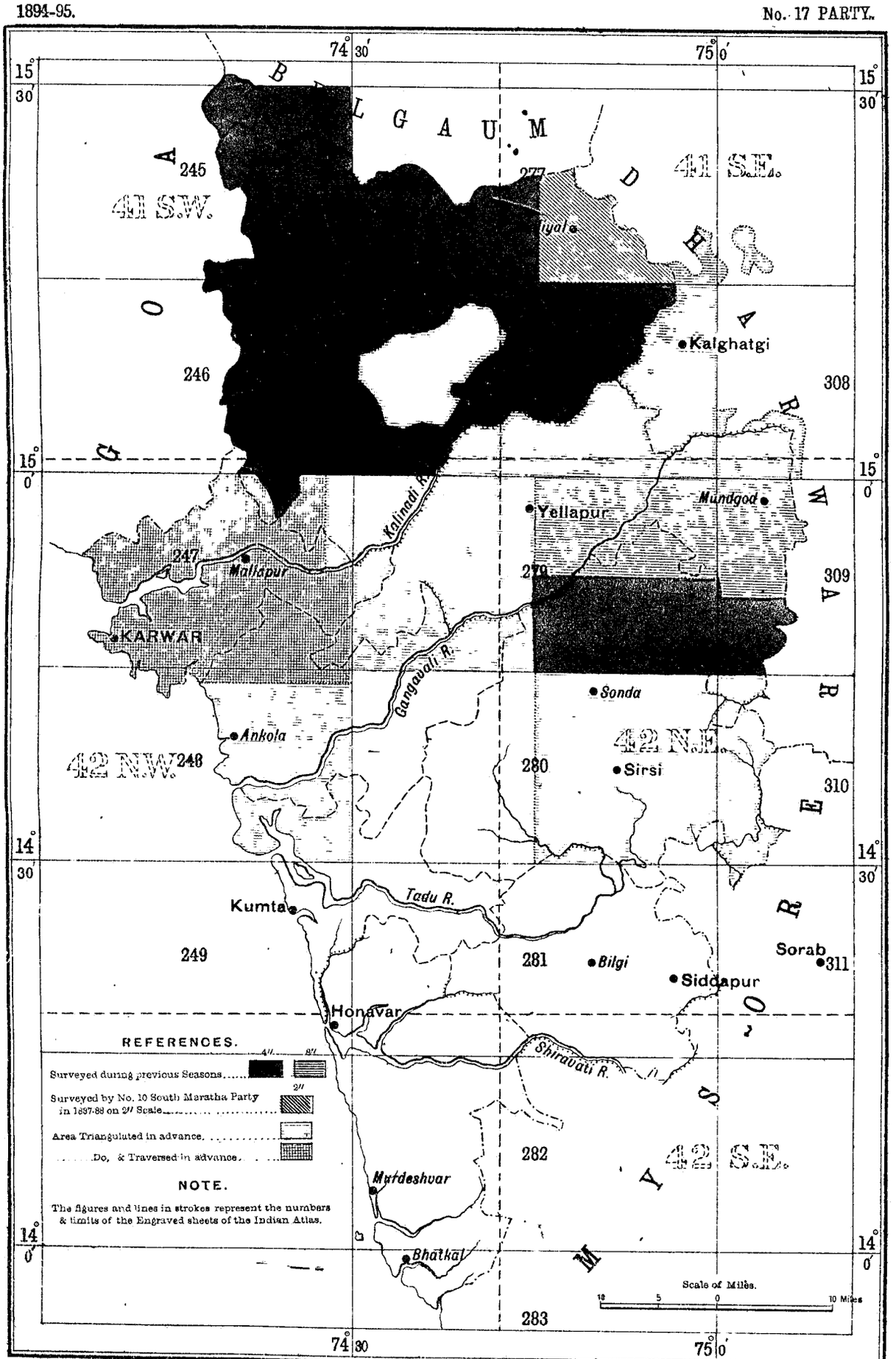
NOTE.

The figures and lines in strokes represent the numbers and limits of the Engraved sheets of the Indian Atlas.

BOMBAY SURVEY.

INDEX TO THE FOREST SURVEYS IN THE SOUTHERN CIRCLE (N. KANARA).

1894-95. No. 17 PARTY.



Reg. No 339 S [illegible] Dec 95.—550.

Photo S I. O. Calcutta

No. 546-S. 95.

Annual Report of No. 17 Bombay Forest Survey Party for the year 1894-95.

Personnel.

Lieutenant-Colonel J. R. Hobday, I.S.C., Officiating Superintendent, 2nd Grade, in charge; Mr. C. E. Tapsell, Extra Assistant Superintendent, 4th Grade; Mr. S. F. Norman, Extra Assistant Superintendent, 6th Grade; Mr. C. Norman, Extra Assistant Superintendent, 6th Grade; 2 Surveyors; 19 Sub-surveyors; 1 Draftsman; 1 Writer; and 14 Temporary Sub-surveyors.

Date of taking the field, and return to recess quarters.

2. The party took the field about 1st November, and returned to recess quarters at Poona, about the end of May.

General plan of operations.

3. The survey of the forest areas in the Northern, Central, and Southern Circles of the Bombay Presidency was continued as in former years, *viz.*, bábul reserves on the 16″ scale, teak areas on the 8″ scale, and all other forests on the 4″ scale.

At the commencement of the season Mr. Tapsell was incapacitated for field work, by an attack of typhoid fever. In January he was deputed to supervise the 4″ surveys in Haveli táluka of Poona district, and on their completion in March, proceeded to superintend the 8″ surveys in Alibág táluka of Kolába district.

Mr. S. F. Norman was first placed in charge of the 8″ surveys in Akola táluka of Ahmednagar district, and in March, proceeded to Wáda táluka of Thána district, to continue the 8″ surveys in that taluka.

Mr. C. Norman was at first deputed to superintend the 4″ and 8″ surveys in Haveli táluka of Poona district, during Mr. Tapsell's illness, and afterwards proceeded with his detachment to complete the 8″ surveys of Pen táluka in Kolába district.

Surveyor Gopal Vishnu first commenced a subsidiary triangulation to furnish additional points for the 8″ surveys in Alibág táluka of Kolába district. This he completed, as well as computed, by January. In February he was deputed to supervise 2 sub-surveyors, and with their aid conducted the 16″ surveys of bábul reserves in tálukas Kopargaon and Nevása of Ahmednagar district, till the end of the field season.

Sub-surveyor R. V. Joshi continued the triangulation, in advance of detail survey in North Kánara; whilst temporary sub-surveyor Pandurang Vaidya undertook some traversing in the same district.

Sub-surveyor N. R. Patwardhan completed the supplementary triangulation, and traversing in advance of topography of táluka Máhim in Thána district.

Cost of party, areas and cost rates of surveys.

4. The total cost of the Bombay Forest Survey Party for the year under report, and the apportionment of charges to the 3 forest Circles amounts to—

Circle.	Financial year ending 31st March 1895.			Forest year ending 30th June 1895.			Survey year ending 30th September 1895.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Northern Circle	11,179	14	0	11,177	0	0	11,402	10	7
Central Circle	27,146	6	7	27,136	0	0	27,711	15	1
Southern Circle	28,403	1	7	30,645	5	9	31,258	1	0
Total ...	66,729	6	2	68,958	5	9	70,372	10	8

The calculation of cost rates of any given survey are based on the totals for the *survey year*, as they truly represent the actual cost of its survey in the field, and its subsequent mapping during the recess. It will be noted that the apportionment for the forest year does not widely differ from that for the survey year, consequently the cost rates are not materially affected by taking either sets of figures.

The areas of triangulation, traversing and topography completed in each of the 3 forest Circles, during the season under report, together with their cost rates, are given in the accompanying statements A, B and C.

The total areas in square miles completed on the various scales, during the last and previous seasons, are as follows:—

Description of Survey.	1893-94.			1894-95.		
Scale.	4″.	8″.	16″.	4″.	8″.	16″.
Triangulation	465	...	...	725	355	...
Traversing	215	...	...	75	200	...
Topography	202	222	65	159	285	24

The decrease of area in the outturn of topography on the 4″ scale, as compared with that of the previous year, is due to the fact that no detail surveys were undertaken in North Kánara during the season under report, and the decrease on the 16″ scale is due to the small number of sub-surveyors (2) that were available for this special work. On the other hand, there is an increase in the outturn on the 8″ scale, and a very considerable increase of triangulation in advance of topography.

The average cost rates of the surveys on the various scales, as compared with those of the previous year, are as follows:—

		1893-94.	1894-95.
		Cost rate per square mile.	Cost rate per square mile.
		Rs.	Rs.
Triangulation ...	4″ Scale	10·8	8·8
	8″ „	.....	15·0
Traversing ...	4″ Scale	12·6	29·5
	8″ „	.....	4·8
Topography ...	4″ Scale	84·8	81·0
	8″ „	156·4	139·5
	16″ „	179·5	116·5

The above shows a diminution of cost rates in every instance, with the exception of the cost rate of traversing on the 4″ scale, the increase being due to the difficult nature of the country (North Kánara), and the expense of cutting rays through dense forest, also to the fact of the surveyor, who was employed on the work, being comparatively a new hand, this being his first attempt at traversing. The "*modus operandi*" of traversing, which has hitherto been in vogue in this party, was also found to be a laborious one, and will be modified in future with better results. The large decrease in the cost rates of 16″ surveys is due to the absence of European supervision. These bábul reserves being small

blocks situated on the banks of the principal rivers of the Deccan; on flat ground and easy to survey, it was deemed sufficient to place a reliable native surveyor in charge of the work. The senior surveyor in the party, Gopal Vishnu, conducted these operations in a thoroughly satisfactory manner. The outer boundaries of the blocks were surveyed by him in person, by plane-table circuits, with 2 chains of different lengths, whilst the interior details were filled in afterwards by his assistants. The 24 square miles surveyed on this scale being finally tested by 33 linear miles of check lines. The employment of native supervision on these surveys was explained to, and approved of by, the Surveyor General on the occasion of his annual inspection this year. It is hoped that the diminution of the cost rate of these special surveys, the need for which, the Conservator of Forests, Central Circle, has fully explained in his last Administration Report, will be approved of by the Imperial and Provincial Governments, who have hitherto brought to notice their costliness. With an increase to the establishment of native surveyors in this party, a still further decrease in the cost rates of these 16″ surveys may reasonably be expected.

The number of native surveyors in the party (27) is inadequate for the 3 European assistants who are appointed to supervise them, consequently an application has been made to the Government of Bombay to raise the Budget allotment from Rs. 71,000 to Rs. 76,000 or an addition of Rs. 5,000, which will provide for the entertainment of 9 or 10 more surveyors and their establishments in the field. This is really only an addition of Rs. 200 on the Budget grant, as the annual allotment for the past 6 years has been Rs. 75,800. This proposed increase in the native staff, if sanctioned, cannot fail to accelerate the progress of the forest surveys, and thereby diminish cost rates. I further propose to enlist these additional men at once, and commence their training, this being the most favourable time of year for their instruction.

The progress of the forest surveys in the Bombay Presidency and consequently their cost rates depend upon a variety of circumstances, some of the most prominent being —

(1) The distance of the field of operations from head quarters.

(2) The scattered nature and size of the forest blocks.

(3) The number of stones, cairns, and other permanent forest marks that have to be laid down on our maps with precision.

(4) The healthiness or otherwise of the localities under survey.

(5) The density of forest growth.

Referring to statements A, B and C, accompanying this report, it will be noted that the cost rates of a survey on any given scale vary in each district and forest Circle; such differences are accounted for by the abovementioned circumstances. The causes which affect the progress, and consequently the cost rates of the surveys in the Deccan or Central Circle, are items 2 and 3 as enumerated above; the cause which affects the progress of the surveys in the Konkan, *viz.*, in Thána and Kolába districts, is item 4; whilst those which influence the rates in Kánara are those cited in items 1, 4 and 5.

Examination of field-work and Superintendent's inspection tour.

5. The accuracy of the seasons topography was tested by 187 linear miles of cheque lines, as well as by "*in situ*" examination; and the camps of the various detachments were visited by the Superintendent, wherever survey operations were in progress.

During December the Superintendent examined the 4″ and 16″ surveys in progress in Haveli táluka of Poona district, under Mr. C. Norman, and again during the early part of January. He then moved on to Ráhuri in Ahmednagar district on the Dhond-Manmád Railway and proceeded *via* Sangamner and Akola to inspect the 8″ surveys of the teak reserves in the latter táluka, under Mr. S. F. Norman, and returned to Poona *via* Khed on the 3rd February. During the latter half of February he visited the 4″ surveys in progress under Mr. Tapsell on the ghâts in Mulshi petha of Haveli táluka. During March and April Mr. C. Norman's

and Mr. Tapsell's camps were again visited, the former at Nagothna in Pen táluka, and the latter in Alibág táluka, Kolába district, and the 8″ surveys in progress in those tálukas were examined, and arrangements made for their completion during the season. From Alibág the Superintendent returned to Bombay, and proceeded by the B. B. & C. I. Railway to Pálghar, and marched across to Wáda, to inspect the 8″ surveys, in progress in that táluka under Mr. S. F. Norman, and finally returned to Poona *viâ* Bhiwndi on 25th April. On the 19th April the Superintendent met Mr. R. C. Wroughton, the Deputy Conservator, Northern Circle, at Manor, and consulted with him on forest survey matters, and regarding the proposed demarcation of coupes in Wáda. On 2nd May the Superintendent left Poona and embarked at Bombay for Kárwár, where he arrived on the 5th, and met Mr. Davidson, the Collector, and conferred with him regarding the feasibility of getting local labour for our survey parties in Kánara. He then marched *viâ* Kadra to Bara, where he inspected the native surveyor, who was traversing in sheet 247, and then on to Idgundi where he met sub-surveyor R. V. Joshi, who was conducting the triangulation in Kánara; from thence he continued his march *viâ* Yellápur to Alnáwar and finally returned to Poona, by the South Maratha Railway, on the 21 May. During his march through Kánara, the Superintendent was enabled to gain a good idea as to the character of the country that will come under survey during next field season.

In addition to the above, a considerable amount of labour was expended during the intervals, whilst the Superintendent was at Poona in arranging the records of the party, which were found in a very confused state, when he took over charge last year.

Health of the party.

6. The health of the party was good, with the exception of a few cases of sickness in the Konkan, in districts Kolába and Thána.

Mapping and computations.

7. The fair mapping and computations of last season's work are in an advanced state, and I have every reason to believe that they will be completed before the party again takes the field. The number of maps prepared during the recess, or now in hand, are given in statement D accompanying this report.

After overhauling the office records, a register was made by the Superintendent of every map that has been submitted for publication by the Forest Survey Party, since its formation, when it was discovered that some 300 or 400 maps were still lying unpublished in the Poona Photographic Office, including some of the surveys done in 1888-89. This fact was brought to the notice of the Conservators and the Superintendent of the Photographic Office. The former have now been furnished with complete registers of all the maps in their respective Circles, that have issued from the office; whilst the latter has engaged to devote a camera entirely to our maps, and undertakes to print them at the rate of 50 per mensem. So that it is hoped that these arrears will be cleared off in a few months and thus enable Conservators to obtain and make use of the labours of this party, for which they have so long been in need of.

Programme for ensuing field season.

8. The programme for the ensuing field season, as submitted to, and approved by, Conservators of Circles and the Government of Bombay, consists as follows:—

Northern Circle.—Continuation of the surveys of the forest reserves on the 8″ scale in tálukas Wáda and Máhim of the Thána district. It is proposed as an experiment to endeavour to demarcate the coupes in the forest reserves of Wáda táluka "*pari passu*" with the detail survey, also to demarcate the coupes in the blocks that have already been surveyed in that táluka. This procedure was advocated several years ago by Conservators, but pronounced impracticable by my predecessors. Mr. Wroughton, the Deputy Conservator of Forests, Northern Circle, has offered to co-operate with me in carrying out this trial, and engaged to pay for the actual cost of erecting the necessary cairns and pillars. The number of coupes in the Wáda táluka, as given in the last Forest Administration Report remaining to be marked out, is 1,161. If we succeed

in demarcating this quantity and at the same time plot them correctly on our maps, once for all, it will materially help the Deputy Conservator, who with his establishment can only demarcate annually about 300 coupes in the whole of his Circle or about one coupe in advance in each block.

Central Circle.—Supplementary triangulation in advance of detail survey for the teak reserves remaining unsurveyed in tálukas Akola and Sangamner of Ahmednagar district.

Detail survey of forest reserves on 4″, 8″ and ·16″ scales in tálukas Sirur, Purandhar, Bhimthadi and Indápur, thus completing the Poona district.

Southern Circle.—Triangulation of sheet 249, and western halves of sheets 280 and 281 in Kánara, and traversing in portions of sheets 279, 280 and 310.

Detail survey on the 4″ scale of sheet 247, and western half of sheet 279 in Kánara, embracing an area of about 600 square miles.

J. R. HOBDAY, Lieut.-Col., I. S. C.,
Superintendent, Bombay Forest Surveys.

A.

Statement showing the Forest Survey work and its cost during Survey year 1894-95.

In the Northern Circle.

Description of Survey.	Scale.	District.	Area in Square miles.	Total cost for Survey year.	Cost rate per Square mile.	Remarks.
				Rs. a. p.	Rs. a. p.	
Triangulation	8″ = 1 mile.	N. Thána ..	155	970 4 5	6 4 2	In Máhim Táluka.
Traversing	Do. ...	Do. ...	200	970 4 5	4 13 7	
Detail Survey... ...	Do. ...	Do. ...	55·51	9,462 1 9	170 7 4	In Wáda Táluka.
		Total ...		11,402 10 7		

B.

Statement showing the Forest Survey work and its cost during Survey year 1894-95.

In the Central Circle.

Description of Survey.	Scale.	District.	Area in Square miles.	Total cost for Survey year.	Cost rate per Square mile.	Remarks.
				Rs. a. p.	Rs. a. p.	
Detail Survey	4″ = 1 mile...	Poona ...	159·35	12,917 10 4	81 1 4	
Do. ...	8″ = 1 „ ...	Do. ...	6·89	802 10 1	116 6 5	
Do. ...	Do. ...	Ahmednagar.	106·14	11,167 15 9	105 3 4	
Do. ...	16″ = 1 mile	Poona ...	0·41	47 12 10	114 10 5	
Do. ...	Do. ...	Ahmednagar.	23·83	2,775 14 1	116 7 2	
		Total ...		27,711 15 1		

J. R. HOBDAY, Lieut.-Colonel, I. S. C.,
Superintendent, Bombay Forest Surveys.

Poona, 1st October 1895.

C.

Statement showing the Forest Survey work and its cost during the Survey year 1894-95.

In the Southern Circle.

Description of Survey.	Scale.	District.	Area in Square miles.	Total cost for Survey year.	Cost rate per Square mile.	Remarks.
				Rs. a. p.	Rs. a. p.	
Triangulation ...	8″ = 1 mile ...	Kolába ...	150	4,336 5 0	28 14 6	186-3-5 = total cost rate of 8″ survey in Kolába.
Detail Survey ...	Do. ...	Do. ...	116·69	18,356 9 0	157 4 11	The cost rate of triangulation is higher than usual because it had to be computed in the field.
Triangulation ...	4″ = 1 mile ...	N. Kánara.	725	6,345 14 0	8 12 1	38-5-6 = cost rate of triangulation and traversing in Kánara.
Traversing ...	Do. ...	Do. ...	75	2,219 5 0	29 9 5	The traversing in Kánara is more expensive than it should be, owing to the difficulties of the country and density of forests, &c. ; also a new hand was employed on the work. The cost of traversing coupled with the cost of triangulation is not an exorbitant rate.
		Total ...		31,258 1 0		

D.

Statement showing the amount of fair mapping completed during recess season of 1895.

Circle.	District.	Scale.	Number of Sections.	Remarks.
Northern Circle ...	N. Thána ...	8″ = 1 mile.	11	To be sent to Government Photo Office, Poona, for publication.
Central Circle ...	Poona ...	4″ = „ ...	18	
Do. ...	Do. ...	8″ = „ ...	6	
Do. ...	Do. ...	16″ = „ ...	1	
Do. ...	Ahmednagar.	8″ = „ ...	31	
Do. ...	Do. ...	16″ = „ ...	44	
Southern Circle ...	Kolába ...	8″ = „ ...	19	
Do. ...	N. Kánara ...	2″ = „ ...	8	For reduction to ½ scale. To be sent to Calcutta for publication.

J. R. HOBDAY, Lieut.-Colonel, I. S. C.,
Superintendent, Bombay Forest Surveys.

Poona, 1st October 1895.

No. S—2823 of 1895.

From

E. C. OZANNE, Esquire, I.C.S.,
Survey Commissioner and Director of
Land Records and Agriculture;

To

The CHIEF SECRETARY to GOVERNMENT,
Revenue Department.

Poona, 26th November 1895.

Sir,

I have the honour to submit the Annual Report of the Bombay Forest Survey, for the year ending 30th September 1895. Copies of the report are being furnished to the Conservators of the three Forest Circles, and to the Commissioners of Divisions with copies of this forwarding report, as directed in Government Resolution No. 5335, dated 15th July last. It was in this Resolution that sanction was accorded to Colonel Hobday's proposal that his report should not be as heretofore included in the Progress Report of Revenue Surveys.

2. The party of the Survey of India, deputed to carry out Forest Surveys in Bombay, and a Topographical Survey concurrently with the Forest Survey in Kánara, was under the charge of Lieutenant-Colonel Hobday, Officiating Superintendent 2nd Grade. The work to be reviewed is that of the first year of Colonel Hobday's charge. In one respect he has already reduced cost, by freeing the scattered Babhul Block surveys from the cost of European supervision, but the cost so saved will fall on other portions of work, with improved supervision no doubt, till the further step of increasing the subordinate staff of surveyors has been taken. An enlarged budget provision has been recently asked to make this step possible.

3. The total cost of the Party, and the distribution of the cost among the Circles, with comparative figures for the previous year, are shown below:—

Year.	Northern Circle.	Central Circle.	Southern Circle.	Total.
	Rs.	Rs.	Rs.	Rs.
1893-94	10,243	28,796	32,760	71,800
1894-95	11,403	27,712	31,258	70,373

As has been explained in former reports, the cost in the Southern Circle should be reduced by Rs. 10,000, the estimated cost of Topographical Survey which but for the presence of the party would have fallen on the Survey of India. This estimated cost is in the opinion of Colonel Hobday a fair deduction, as proved by the actual cost of the work undertaken in the Southern Circle. The Conservator, Southern Circle, considers that he is overcharged for the work done for him. In my opinion he has not shown sufficient reason to modify the estimate. At all events, it is too late to ask the Government of India to reconsider the arrangement made.

4. I need not repeat the detailed comparison as to the cost of the various items of the work, which are succinctly given by Colonel Hobday. In the latter portion of his paragraph 4 he shows the reasons why similar work costs more in one tract than another, and all the reasons given have been abundantly illustrated in this and former seasons' work. It is to his credit that by judicious apportionment of work between healthy and unhealthy tracts the loss of time by sickness

has been so greatly reduced. His own supervision has been close, and it is satisfactory that he will be able even tentatively to undertake the demarcation of Forest coupes in Thána *pari passu* with the detail survey, the Forest Department co-operating by erecting the necessary cairns. The arrears in the Photozincographic Department are serious. It is somewhat strange that the existence of the arrears has not before this date attracted the notice of the Conservators.

5. The work done during the year may be analysed as follows :—

NORTHERN CIRCLE.

Thána Forests.—In Váda Taluka, 55½ square miles more of detail survey were completed, and traverse and triangulation in preparation for survey in the Máhim Táluka. The detail survey was Rs. 10 per square mile more costly than similar work in the same táluka last year.

CENTRAL CIRCLE.

Babhul Reserves.—The survey covered 24·24 square miles, *viz.*, ·41 in Haveli of Poona, and 23·83 in the Kopargaon and Nevása Tálukas of Ahmednagar. The cost of this work has been diminishing, as the figures for the last three years (Rs. 190, 179, and 115 per square mile) show. The great decrease this year is due to the cheapening of supervision.

Other detail survey.—In the Haveli Táluka of Poona, 6·89 square miles of teak forest, and 159·35 square miles of other forest, besides the babhul reserves were covered, and an area of 106 square miles of teak forest in Sangamner, and Akola of Ahmednagar. Both on the 8 and the 4 inch scales, the work was cheaper than last year.

SOUTHERN CIRCLE.

Kánara Forests.—Work was confined to triangulation and traverse. This is in accord with the plan sketched out last year of endeavouring to make greater progress by securing a large area for future detail survey. The area triangulated was 725 square miles in 3 tálukas (Yellápur, Sirsi and Ankola). The cost compares very favourably with that of similar work last year in Kánara. Traverse was done in 75 square miles of Kárwár, at a cost of Rs. 29 per square mile. Colonel Hobday remarks that two causes combined to raise the cost,—difficulty of country, and inexperience of the Surveyor. The latter was evidently the principal reason, for the Karwár Táluka does not present such difficulties as other tálukas of Kánara.

Kolába Forests.—Work in Pen Táluka was continued, and completed in Alibág. The cost of detail survey including the triangulation was about Rs. 186 per square mile. The cost of the detail survey, excluding triangulation, is a little less than last year.

I have the honour to be,

Sir,

Your most obedient Servant,

E. C. OZANNE,

Survey Commissioner, and Director of

Land Records and Agriculture.

SIND CIRCLE.

No. 1129 of 1896.

REVENUE DEPARTMENT.

Commissioner's Office,

Karachi, 31st March 1896.

Annual Administration Report of the Sind Forest Circle for the year 1894-95.

Forwarded to Government.

2. The figures in the earlier paragraphs of Mr. Desai's report appear to have been taken from the special Forest Settlement Officer's report, which the Acting Commissioner is forwarding to Government with the Forest Report of the year 1894-95. As these figures are inaccurate and do not represent the actual areas notified, a statement is attached to Mr. Barrow's report in which are given the actual areas afforested and disforested according to the Forest years. This statement explains why the amended figures given below should be substituted for those in Mr. Desai's report :—

Paragraph 3—

For 50,796 *read* 51,349.

For 37,945 *read* 38,153.

For 12,851 *read* 13,196.

Paragraph 16—

The same corrections will come here.

Paragraph 17—

The area actually disforested in Thul was 23,974, *not* 23,871 acres.

Paragraph 18—

The distributions among forest divisions cannot be checked.

Paragraph 25—

38,330 acres as the area which was disforested is not correct; 38,335-25 is correct.

Paragraph 28—

The areas should be—

Section 4.	Section 19.	Section 26.
57,698-17	63,031	38,335
not	*not*	*not*
56,738-25	61,375	38,128

3. When these corrections have been made, the area of reserved forest is found to have increased by 13,196 acres excluding the net loss by erosion of 1,252 acres; besides a small area of 183 acres of protected forest in the neighbourhood of Jacobabad has been disforested. Including everything, there appears to be a net increase of 13,013 acres. There is also a total area of 10,906 acres out of the areas mentioned in paragraph 29 which has still to be settled. A special officer is now demarcating the areas selected by Mr. Barrow.

4. In his paragraph 17, Mr. Desai takes exception to the disforestment of 9,432 acres in the Rohri Taluka. From the correspondence, which has been referred to, it seems that Mr. Desai's predecessor was consulted and raised no objection to the proposal. Mr. Desai had signified his intention to experiment on 1,000 acres of the Sultankot reserve by obtaining water through the Public Works Department at a time when it was not needed by cultivators. No allusion is made to this in the report, and it is supposed that the inundation was too poor to allow of the experiment being made.

5. The inundation with which the report of the Forest year 1894-95 is concerned was that of 1894—an extraordinarily high one. Its effect appears to have been extremely good in the riverain forests of the Sukkur Division and

in the Hyderabad Division; existing growth was stimulated and bare patches were covered with seedlings, and owing to a breach in the river bund near Sukkur, forests were inundated which had been left dry for some years.

In the Jerruck Division, it is said that the continual flooding the babul forests receive prevents reproduction, and elsewhere it is stated that the floods dammed up by protective bunds deposited large quantities of silt which choked the undergrowth. The presentiment expressed in paragraph 68 as to the probable results on riverain forests of the embankment policy of the Public Works Department is hardly justified. It is not generally admitted that the extension of protective bunds has been the cause of the higher inundations of the past few years.

Pasture was abundant, and a diminution of the grazing receipts might perhaps have been expected. There has been a slight increase, however, of Rs. 239, which is attributed to better supervision and collection. The extension of green growth also assisted the Forest Department in another way,—in the prevention of fires. The area burnt was 3,544 acres as against 7,809. This comparative immunity is also due to greater care in the Jerruck forests.

There seems to be a slip in paragraph 113, where the receipts from fisheries are said to have increased owing to larger areas having been filled with flood water. The table exhibits a decrease of Rs. 93 from this source, whereas presumably the figures should, in accordance with the Deputy Conservator's remarks, have shown an increase.

6. The height and duration of the inundation not only caused direct loss by erosion, but it interfered with the prearranged programme for timber felling and it retarded operations as forests could not be reached till December.

As before mentioned, there was a net loss of 1,252 acres by erosion, as 16,408 acres were lost, and 15,156 acres are estimated to have been gained by accretion. The loss, however, included 10,000 acres of mature timber, while the areas gained cannot be productive for a number of years, even if they escape the inroads of succeeding inundations. The loss is therefore serious.

Sir Charles Ollivant was convinced from personal observation in the course of his tour that, by careful and timely attention to the annual set of the river, much more might be done than has been done to save for the market (where the demand is steadily increasing) good forest produce which is now wasted. For miles well grown trees may be seen toppling over into the water as the bank gradually erodes. Thus, there is not only unnecessary loss both to the producer and consumer, but the same process is the most abundant factor in causing "snags," which, as dangers to navigation, it becomes the business of the River Conservancy Department to remove at considerable expense. Immediately after the inundation has subsided, it should be the business of the Forest officers annually to mark out for immediate clearance (independently of the rotation compartments) ribbon strips some hundreds of yards wide from a 'cutting' bank wherever there is a forest with well grown trees. If this is a matter to which hitherto too little attention has been paid, the defect must be ascribed to the officers of the Department having been overburdened with the duty of arranging for the chopping and carriage of fuel, which could much more effectively and satisfactorily be performed by contract agency, so that they could not devote sufficient time to the more appropriate subjects of forest economy and extension.

7. The division of forests into compartments, and the cutting of rides, has been almost at a standstill. The area to be dealt with has increased to nearly 2 lakhs of acres, and 3,840 acres only were sub-divided. The explanation is that measurers could not be obtained except at salaries beyond the reach of the Forest Department. It is an unsatisfactory record, and it is hoped that now surveyors have been attached to each division, the actual measuring to be done will not be found an insuperable difficulty. No very great accuracy is required, and the fact that more than one-fourth of the Sind forests are not

broken up must be an obstacle to any plan of operations, besides hindering inspection. The high prices of labour due to railway extension and the large Jamrao Canal project also tended to reduce the outturn.

8. The Deputy Conservator alludes to the insufficiency of the forest protective staff and states that both the establishment is too small and the pay too low. The high rate of wages obtainable for coolie labour affects other departments equally, but it is regrettable to find that the Deputy Conservator has a very low opinion of the character of the trained recruits from the Forest class at Poona.

9. The details of Magisterial cases for breaches of Forest laws appear less satisfactory than in the last report, but it is only in one division that both cases and acquittals have increased. It is not explained why half the prosecution in Sind should have been made in one division. The number of compounded cases has diminished considerably in the same division, while the total for Sind is practically unchanged both under the head of illicit grazing and theft. The amount of compensation credited was Rs. 459 as against Rs. 528. The Deputy Conservator has been throwing open forests for grazing which it seems it has been the practice to keep closed, and $\frac{9}{10}$ths of the total forest area are now open.

The number of impoundings were slightly higher for closed forests and would have been also higher for open forests had not, it is explained, cattle owners preferred to pay the penalties and register their animals. The hedging in of closed areas is carried out by the inhabitants of the neighbourhood in return for certain concessions. This policy of enlisting local services is also adopted in making plantations on bare patches, in fire protection and other ways, and it is a most useful one. The concessions cost little or nothing, and good relations between the Forest Department and zamindars are encouraged.

10. From the figures given in paragraphs 96 and 101, it appears that the output of timber, firewood and charcoal was slightly larger than in the previous year. The felling of timber varies with the demand, and it is noticed that the balance of stock is chiefly logs. The remarks of the Deputy Conservator seem to imply that, had labour been available and work had not been hindered by the high inundation, the outturn might have been much more. The quantity of firewood supplied by Departmental agency was 1,704,778 maunds as against 1,985,499, the North-Western Railway taking more than half. The report is silent as to how far it was possible to meet the requirements of the Railway, and it is not stated how much firewood was sent up to Baluchistan beyond a small quantity to the Executive Engineer, Military Works, Sharigh, though a special area has been set apart to supply Baluchistan. Another paragraph shows that the actual outturn of firewood and charcoal in cubic feet was 39,36,052 as against 36,32,395,—about three lakhs in favour of the year under report. The increase in the cuttings and removals from forests by purchasers is satisfactory. Free grants of wood were made to the value of Rs. 1,162. The difficulty pointed out by Mr. Desai of allowing villagers free access to forests has been recognized, but there is reason to fear that the necessity for obtaining even thorns for fencing through low-paid subordinates opens a road for petty exaction to them, even if it prevents damage and petty thefts.

11. The figures of receipts and expenditure for the two past Forest years in the following table

	Receipts.	Expenditure.	Balance.
1893-94 ...	6,79,252	4,58,470	2,20,782
1894-95 ...	6,79,823	4,17,757	2,62,066

are in favour of the year of report. The expenditure is less and the receipts are a few hundred rupees more. The receipts in Jerruck are less though the net balance is greater than in 1893-94, and in Thar and Parkar both receipts and expenditure are less. With the re-introduction of an improved contract system, a very large reduction in the expenditure and a further diminution of the percentage of charges on receipts is expected.

12. A few remarks are necessary on the so-called Departmental system of extracting firewood to which Mr. Desai has devoted some paragraphs of his

report. A report on the subject has already been submitted to Government. To save the profits made by middlemen when cutting was done by contract, and so, with the best intentions, to keep down the selling price, the Forest Department, which is intended to promote the growth and assist the production of timber and forest products, became a large supplying agency without the necessary machinery. It is only fair to the late Mr. Hexton, under whom the change was inaugurated, to mention that he had observed the difficulties that beset it before he was obliged by illness to take leave in June 1893. The danger of giving large advances through subordinates was recognised by the Honourable Mr. James, and Mr. Desai in taking charge was instructed to at once enquire into and put a stop to the system. In the Sukkur Division, a serious misappropriation of Government funds was brought to light by Mr. Dalal, the Divisional Forest Officer, and the successful conclusion of the prosecution that ensued was in a large measure due to his determination.

A. F. WOODBURN,
Acting Commissioner in Sind.

No. 2906 of 1895-96.

From

THE DEPUTY CONSERVATOR OF FORESTS,
SIND CIRCLE;

To

THE SECRETARY TO GOVERNMENT,
REVENUE DEPARTMENT,
Bombay.

DEPUTY CONSERVATOR'S OFFICE.
Camp Sonda, 25th November 1895.

SIR,

I have the honour to submit herewith the Annual Administration Report of the Sind Forest Circle for the year 1894-95, together with its subsidiary statements.

2. The delay in the submission of the report is to be regretted, but it was unavoidable, as the report of the Sukkur Division was detained by the Collector of Shikarpur for more than a month and a half, which considerably retarded the preparation of the statements and returns required for embodiment in the Circle report.

I have the honour to be,
Sir,
Your most obedient Servant,
F. R. DASAI,
Deputy Conservator of Forests,
Sind Circle.

Through the Commissioner in Sind.